

CIA-RDP86-00513R001754910004-0 "APPROVED FOR RELEASE: 07/13/2001

MARAKANCE, K. N.

USSR/General Section - General Problems. Philosophy, Methodology

: Referat Zhurn. Biol. No 16, 25 Aug, 1957, 67803 Abs Jour

Tarakanov, K.H. Author

V.L. Kommrov and some Comcept-Theories in Biological Title

Problems.

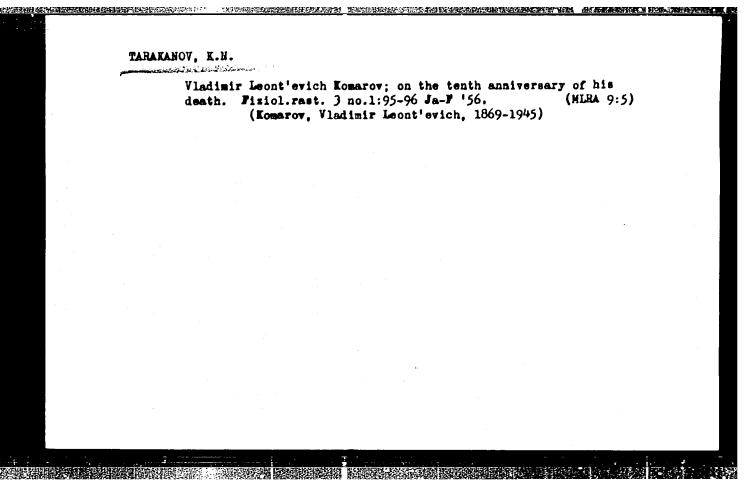
: Izv. AN SSSR, biol. ser., 1956, No 2, 9-17 Orig Pub

: Analyzing the declarations of V.L. Komarov on fundamental Abstract

problems in biology, the author comcludes that Komarov considered the effect of environment the deciding factor in the origin of species, and assumed that Darwin's recognition of Malthusianism was his error and attached significance to intra-species struggle. Considering Komarov's opinion as to the gradualness of species formation incorrect, the author nevertheless considers that his out-

look is in the stream of Michurin biology.

Card 1/1



TARAKA	NOV, K.H.
•	Ecologico-historical characteristics of meristematic tissues in some northern and southern varieties of barley and wheat. Zhmr. ob.biol. 20 no.1:56-60 Ja-F 59. (MIRA 12:2)
	1. Institut fiziologii rasteniy. (BARLEY) (WHEAT) (PIANT CELLS AND TISSUES)
•	por a series of the series of
	• · ·

TARAKANOV, K.N.

Cytological characteristics of the varieties of barley grown beyond the Arctic Circle. Zhur. ob. biol. 24 no.5:374-379 S-0 163. (MIRA 17:1)

1. Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR.

[Cultivation of Krandar, Krand	sigarnykh tabakov (MLRA 10:8	kh tabakov. (MLRA 10:8)	
1. Krasnodar, i makhorki. (Tobacc	hno-issledovatel	l'skiy institut te	beka

TARAKAN'Y, K. F.

Agroteknnika migarnykth talakov (agrotechnology of cigar tollocos). Ere nodar, Eraz-nodarskov kraevoe izdatelistvo, 1952. 88 p.

SO: Monthly List of Russian Accessions, Vol 6, No. 3, June 1953

rotechnology datel'stvo,	of cigar tob 1952		Krasnodar			raevee		
nthly List of	Russian Acc	essions	, Library	of Congr	088,	June	_1953, Un	cl.

SOV/149-58-6-15/19 AUTHORS: Kobakhidze, L.P. and Tarakanov, M.V.

PROPERTY YOU

TITIE: Economic Effectiveness of Combined Mining of the Ore

Deposits of Tyrnyauz (Ekonomicheskaya effektivnosti kompleksnoy otrabotki rud Tyrnyauzskogo mestorozhdeniya)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Tsvetnaya

Metallurgiya, 1958, Nr 6, pp 130 - 135 (USSR)

ABSTRACT: The Tyrnyauz tungsten-molybdenum deposits are located in the high mountains of the Kabardino-Balkarshaya ASSR about 94 km from the town Nal'chik. It consists of a

large number of ore bodies and the predominant type is The Skarn ore consists of three types, predominantly tungsten ore, tungsten-molybdenum and predominantly molybdenum ore. As regards quantity, the first two grades predominate and form the central, very thick, part of the main Skarn body; the molybdenum ores are basically located in the North-western part. Since the character of the ore deposits is non-uniform the mining is effected simultaneously at several levels. The authors argue that since some of the molybdenum ores

also contain tungsten trioxide it is necessary to take Cardl/3 into consideration the industrial usefulness of both

CIA-RDP86-00513R001754910004-0"

APPROVED FOR RELEASE: 07/13/2001

THE STATE OF THE PROPERTY OF T

SOV/149-58-6-15/19

Economic Effectiveness of Combined Mining of the Ore Deposits of Tyrnyauz

these ore elements when determining the minimum percentage for which exploitation is an economic proposition. A cross-sectional sketch is given of the deposits. From 1952 onwards the Tyrnyauz Beneficiation Works processed ore charges which contain 25% hornstone. In 1959/60 a hydro-metallurgical works is to be put into operation in Nal'chik which will process the output of the Tyrnyauz Beneficiation Plant and it is expected that then the extraction of metals from the Tyrnyauz ores will increase by 5 to 10%. The authors argue that the supply position of tungsten in the Soviet Union is good enough to allow a certain drop in the output of tungsten concentrates in the Tyrnyauz Combine in favour of avoiding irreversible loss of large quantities of poor but industrially valuable molybdenum bearing hornstone.

Card 2/3

米廷的基础

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754910004-0"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754910004-0 THE RESERVE OF THE PARTY OF THE

. Economic Effectiveness of Combined Mining of the Ore Deposits of

There are 2 figures and 1 table. ASSOCIATION:

Moskovskiy institut tsvetnykh metallov i zolota. Kafedra organizatsii i planirevaniya predpriyatiy (Moscow Institute of Non-ferrous Metals and Gold. Chair for Organising and Planning of Undertakings)

SUBMITTED:

January 28, 1958

Card3/3

以經濟學與建立

Economic efficiency of complete processing of Tyrnyauz deposit ores. Izv.vys.ucheb.zav.; tsvet.met. no.6:130-135'58.

1. Moskovskiy institut tsvetnykh metallov i zolota, kafedra organizatsii i planirovaniya predpriyatiy.

(Tyrnyauz-Ore deposita)

(Ore dressing)

TARAKANOV, N.A., starshiy inzh.

Using the interference method of checking ellipsoids of revolution by means of parabolic lenses. Izv. vys. ucheb. zav.; prib. 3 no. 1:97-104 '60. (MIRA 14:5)

l. Leningradskiy institut tochnoy mekhaniki i optiki. Rekomendovana kafedroy optiko-mekhanicheskikh priborov.

(Optical measurements)

CANDIDANCE OF MANAGEMENT CONTRACTOR OF THE PROPERTY OF THE PRO

24(4) 28(5) S/146/60/003/01/013/016 D002/D006

AUTHOR:

Tarakanov, N.A., Senior Engineer

TITLE:

An Interferential Method for Checking Rotation Ellipsoids by

Means of Parabolic Lenses +0

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye,

Vol 3, 1960, Nr 1, pp 97-104 (USSR)

ABSTRACT:

This is a theoretical investigation of the checking of rotation ellipsoids by means of convex parabolic lenses. The numerical determination of the theoretical value of the interferential image obtained when the test glass is placed at a corresponding point of the checked object is explained. The derivations obtained by Professor M.M. Rusinov, are also used for the calculations. The proposed method can be used for concave rotation ellipsoids only, its accuracy depending on the accuracy of the parabolic test glass as well as on the accuracy with which the test glass zone center and the ellipsoid point to be checked are superimposed. The article was recommended by the Kafedra optiko-mekhanicheskikh priborov

Card 1/2

S/146/60/003/01/013/016 D002/D006

An Interferential Method for Checking Rotation Ellipsoids by Means of

(Chair of Optical-Mechanical Devices). There are 5 graphs, and 4 tables.

(T)

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: January 5, 1960

Card 2/2

-TARAKANOV, N.A.

Checking parabolic lenses with the IZS-7 spherometer. Isv.vys.ucheb. zav.; prib. 3 no.4:85-91 60. (MIRA 13:9)

1. Leningradskiy institut tochnoy mekhaniki i optiki. Rekom. kafedroy optiko-mekhanicheskikh priborov.

(Optical measurements)

MARTINEVSKIY, I.L.; SHASHAYEV, M.A.; TARAKANOV, N.F.; SHAPOVALOV, A.T.

EXPERIMEN

Fate of plague bacteriophage in the organism of healthy and plague-infected greater gerbils and the possible passage of mikrobiol. apid. 1 immun. 40 no.5:31-34 My 164.

1. Iz Sredneszintskogo nauchno-issledovatel skogo protivochumnogo instituta Ministerstva zdravcokhruneniya SSSR.

我研究指统

TARAKANOV, Nikoley Grigor'yevich; ANOKHIN, P.K., prof., red.;

KOZLOV, N.S., red.; CHISTYAKOVA, K.S., tekhn.red.

[I.P.Pavlov, the great Russian thinker and materialist]

I.P.Pavlov - velikii russkii myslitel' - materialist. Pod

red.i s pred.P.K.Anokhine. Moskva, Ind-vo Mosk.univ., 1960.

86 p. (MIRA 13:11)

1. Deystvitel'nyy chlen Akademii meditsinskikh nsuk SSSR (for Anokhin).

(Pavlov, Ivan Petrovich, 1849-1936)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754910004-0"

DENNING THE

SLIVINGELY, T."., inzh.; TARAKAMOV, O.D., inzh.

Systems of exterior electric power supply for traction substations.

Transp. stroi. 15 no.5:9-10 My '65. (MIRA 18:7)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754910004-0"

SLIVINEKIY, V.V., inzhe; TARAKANOVA Q.P., inzh.

Longitudinal electric power supply for arons electricied by alternating current. Trunsp. strei. 15 no.11z2-10

H *65.

(MINA 18:11)

Inxmune, to

USSR / Liquids

D-8

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, No 9086

Author

: Ryabov, A.V., Tarakanov, O.G., Khurtin, L.I.

Title

恐惧的地名美

: Magnetic Viscosimeter-Dilatometer.

Orig Pub

: Zavod. laboratoriya, 1956, 22, No 9, 1111-1112

Abstract

: Description of a magnetic viscosimeter-dilatometer for the observation of the course of polymerization of vinyl compounds. The depth of transformation is determined from the reduction in the volume V of the system, and the viscosity M is calculated from the time required for a ball to fall between specified levels. V is measured with an accuracy 0.03 -- 0.04 percent, the accuracy of m is 5 per cent in the range from 10 to 10 poise. Data are obtained for m of methyl metacrylate as a function of the depth of poly-

Card

: 1/1

AUTHOR:

HENDERSTEIN

RYABOV, A.V., TARAKAHOV, O.G.

TITLE:

Dilatometric Equipment for the Investigation of Polymerization

Kinetics. (Dilatometricheskaya ustanovka dlya issledovaniya

kinetiki polimerisatsii, Russian) PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol 23, Nr 6, pp 746 - 748 (U.S.S.R.) ABSTRACT:

The principle component of the equipment for the purification of the monomer from air is an ampule from which the monomers are led into the dilatometer. The monomer to be investigated is put into an ampule and a reception device is inserted into the airfilled Duar vessel. After the faucet is opened a vacuum pump is set in operation. The monomer is transferred into the reception device, after which the faucet is turned off and the reception device is taken out of the Duar vessel. The ampule is then placed into the vessel and the monomer is transferred from the reception device into the ampule. The monomer is protected against the influence of air by mercury, which is transferred from the 5th to the 1st ampule. The investigation ended with the transfer of the monomer from ampule 1 into the reaction ampules of the dilatometer. State University "Gorkiy".

ASSOCIATION: PRESENTED BY:

SUBMITTED:

AVAILABLE: Card 1/1

Library of Congress

5.3831

THE PERSON

66989

SOV/81-59-13-48341

Translation film: Referativnyy zhurnal. Khimiya, 1959, Nr 13, p 575 (USSR)

AUTHORS:

Tarakanov, O.G., Ryabov, A.V.

TITLE:

The Copolymerization of Methylmethacrylate With Methacrylic Acid

PERIODICAL:

Tr. po khimii i khim. tekhnol., 1958, Nr 2, pp 270 - 272

ABSTRACT:

For a mixture of monomers of 85% methylmethacrylate (I) and 15% of methacrylic acid (II) the exponential temperature dependence of the initial and maximum copolymerization rate as well as of the time of copolymerization have been established. The total energy of activation of the initial process of copolymerization is equal to 17.5 kcal/mole. The initial polymerization rate depends linearly on the concentration of benzoyl peroxide in the power of 1/2. With an increase in the content of II in a mixture with I from 0 to 0.225 molar parts the polymerization rate increases. An increase in the content of II from 0 to 0.322 molar parts results in a linear increase of the maximum polymerization rate.

Card 1/1

M. Leonov

5(3,4)

AUTHORS:

Ryabov, A. V., Tarakanov, O. 7.

SCY, 1,3-18-4-18,02

TITLE:

Change of the Viscocity of a Reaction System Doring the Block Polymerization of Methyl Methacrylate in Methacrylic

Acid (Izmeneniye vyazkosti reaktsionnoy sistemy v protsesse blochnoy polimerizatsii metilmetakrilata s

metakrilovoy kiclotoy)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavodeniy. Khimiya i khimiches-

kaya tekhnologiya, 1958 (-Nr 4, pp 112 - 116 (USSR)

ABSTRACT:

The viscosity properties of the reaction medium are constantly changed during the polymerization of the monomers. The viscosity-mechanical properties

of the system are one of the main factors that influence the reaction velocity especially in the late stages of the polymerisation (Refs 1-5). The methyl methacrylate polymerization in the presence of benzoyl peroxide is considerably accelerated beginning from about a

20% transformation (Ref 6). Also the polarization degree

Card 1/4

increases (Ref 7). The latter phenomenon (the mo-

Change of the Vincosity of a Reaction System During SCV/193-96-4-19/22 the Block Polymerication of Methyl Methacrylate in Methacrylic Acid

called Trommsdorff or gel effect, Ref 8) is connected with the radical break constant decrease, if the medium is sufficiently viscous. Although several recent papers prove the dependence of the life of free radicals on the thoroughness of the polymerization, the alteration of viscouity has never been controlled (Refs 8-16). The authors of the present paper intended to investigate the process mentioned in the title of the mixtures of methyl methocrylate (MMA) with methocrylic acid (MAA) to the highest possible degree of transformation. It was interesting to determine the viscosity corresponding to the beginning of the reaction acceleration. Already earlier (Ref 17), the authors described a magnetic viscosimeter-dilatometer (Fig 1) which considerably simplifies the complex and long operations in the study of the said problem. Figures 2 and 3 show the curves of the dependence of the viscosity logarithm in poise units on the thoroughness of the transfor ation of the monomeric minture condisting of

Card 2/4

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754910004-0"

Change of the Vibrusity of a Reaction System During SCV/1,3-18-1-19,02 the Block Polymerisation of Methyl Methodrylate in Methodrylate Acci

85% CHA + 15% MAS, or of 82% MHA + 18% MAS, respectively at 35-60. Figure 4 chaws the curves of the city relieve of viceocity during the arc rolymerization , the case of different compositions of the initial monomeric minture. As may be seen herefron the viscosity of the systems in polymerisation increases with the increase of the MAA part in it. This increase is apparently connected with the increase of the potential burrier, or in other words, with the decreasing elanticity and mobility of the macromolecules at the expense of the polar MAA molecules. Hydrogen bonds between the carboxyl groups are formed there. To determine the viscosity corresponding to the initial acceleration the curve is used that characterizes the reaction velocity (Fig. 5). It could be proved that the reaction accoleration corresponds to the viscosity values between 100 and 500 poise units. Within this large the diffusion rate is then considerably decreased. Figure 6 shows the curve of the dependence of the polymerimation initial velocity

Card 3/4

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754910004-0"

Canage of the Viccopity of a Reaction System Daring SOV/153-38-4-1./22 the Block Polymerisation of Nethyl Methacrylate in Lethacrylab Acii

on the temperature. Empirical equations are mentioned for this curve () as well as for the full activities energy of the copolyperination. There are 5 figures as it tables, 4 of which are Soviet.

15 Charteng of the March 1 to 201 and

ASSECTATION: Nauchno-installed evatel taking institut khindle pri Gerthershould

goom.iversitete im. N.I.Loi chevelogo (Selectifie Research Institute of Chemistry at Gortkiy State University imeni N.I.Lobachevekiy) Kifedra kolloidnoy khimii (Cyfr

of Colloid Chemistry)

SUBMITTED: November 1, 1957

Card 4/4

SOV/81-59-10-37457

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 10, p 577 (USCR)

AUTHORS: Ryabov, A.V., Tarakanov, O.G.

PERIODICAL: The Copolymerization of Methylmethacrylate With Butylacrylate

ABSTRACT: The kinetics of combined polymerization of methylmethacrylate (1) with

butylacrylate (II) at 60°C has been investigated; the initiator was benzoyl peroxide. The initial polymerization rate of a mixture of the composition 85% I and 15% II is proportional to the square root of the concentration of the initiator. Equations of polymerization rate have been derived for three cases: 1) the initiation takes place mainly at the expense of I; 2) the initiation takes place mainly at the expense of II, 3) the initiation takes place both at the expense of I and II approximately in an equal degree. The experimental results obey well the equation of I. From the data on the composition of polymers the constants of the combined polymerization $r_1 = 1.54$, $r_2 = 0.5$ have been calculated. The results of the calculation of the integral composition of the polymer and

the distribution of monomer links in polymer molecules are cited.

motional limit in polymer motionies are cited

Card 1/1

A. Pravednikov

5.3831

5(3) AUTHORS: Ryabov, A.V., Guseyev, V.V.,

s/153/59/002/06/025/029 B115/B000

Tarakanov, O.G.

TITLE:

II. The Change in Viscosity of the Reaction System During Bulk Polymerization of Methyl Methacrylate With Methacrylic Acid

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 6, pp 954-955 (USSR)

ABSTRACT:

This paper is devoted to the investigation of the viscosity during bulk polymerization of methyl methacrylate (NMA) and its mixture with methacrylic acid (KAA) in dependence on the content of various initiators in the monomer mixture. The azodinitrile of isobutyric acid (ADNB), the azodinitrile of 2,4-dimethyl valeric acid (ADNV), benzoyl peroxide (BP), and diacetyl (DA) were used as initiators. Values obtained for the initial polymerization rate of MMA in the presence of the initiators mentioned are given (Table). A diagram representing the dependence of the initial rate for the polymerization of a monomer mixture consisting of 85% MMA and 15% MAA on the ADMB concentration is also given (Fig 1), from which the linear dependence of the initial polymerization rate on the square

Card 1/3

II. The Change in Viscosity of the Reaction System During Bulk Polymerization of Methyl Methacrylate With Methacrylic Acid

67847 \$/153/59/002/05/025/029 B115/B000

root of the ADNB concentration may be seen. In additional figures (Figs 2 and 3), the dependence of the logarithm of viscosity on the conversion degree of MMA and its mixture with 15% MAA in the presence of various initiators is given. The change of the viscosity for a monomer-polymer mixture consisting of 85% MMA and 15% MAA in dependence on the conversion degree is also investigated for various concentrations of the initiator ADNB (Fig 4). From the table and the figures, it may be seen that the viscosity of the polymerization system corresponding to a defined conversion degree decreases with the increase in activity and the concentration of the initiator, respectively. The shapes of the curves logarithm of viscosity conversion degree of the polymerization system depend only little on the initiator used and its concentration. It was shown by an analysis of the curves of the change of the polymerization rate as well as of the curves of the change of viscosity of the reaction system (Ref 1) that the viscosity for MMA and its mixture with 15% of MAA corresponding to the gel effect is 100 to 500 P, and does not depend on the com-

Card 2/3

II. The Change in Viscosity of the Reaction System During Bulk Polymerization of Methyl Methacrylate With Methacrylic Acid

67847 \$/153/59/002/06/025/029 B115/B000

position of the initiator and its concentration. The authors thank docent Ye.I.Fedotova for the ADNV put to their disposal for the experiments. There are 4 figures, 1 table, and 2

ASSOCIATION:

REFEREN

Gor'kovskiy gosudarstvennyy universitet imeni N.I.Lobachevskogo, kafedra vysokomolekulyarnykh soyedineniy (Gor'kiy State University imeni N.I.Lobachevskiy, Chair of Macromolecular Compounds)

SUBMITTED:

September 11, 1958

سلا

Card 3/3

S/191/60/C00/012/011/016 B020/B066

15 8460

AUTHORS:

Vasil'yev, B. V., Tarakanov, O. G.

TITLE:

Study of Adhesion of Foam Plastics. Report No.1. Adhesion

of Foam Polyepoxide and Foam Polystyrene to Metals

PERIODICAL: Plasticheskiye massy, 1960, No. 12, pp. 38 - 41

TEXT: The purpose of the present paper was an investigation of the adhesive strength of foam plastics on the basis of the $\Im I-6$ (ED-6) epoxy resin, and of foam polystyrene to steel, bronze, and aluminum. The authors used the cone method, i.e., a cone was ground from a metal bar with a diameter of 7-8 mm, which had a generatrix of about 20 mm and an angle of $8-10^{\circ}$. To test the adhesion of epoxy foam plastics, the cones were suspended on a steel wire above a sheet mold in which the compound intended for foaming was poured (Fig.1). It consisted of a mixture of ED-6 epoxy resin with metaphenylene diamine as hardener. Diisobutyric acid azo-dinitrile was used as foaming agent. The force required to withdraw the cone from the foam plastic was determined on a tearing machine of the PM-2 (RM-2) or PM-250 (RM-250) type at a rate of

Card 1/3

Study of Adhesion of Foam Plastics. Report
No.1. Adhesion of Foam Polyepoxide and Foam
Polystyrene to Metals

S/191/60/GCO/012/C11/C:E
B020/B066

50 mm/min. The dependence of the adhesive strength of the foam plastic on its weight by volume was first studied (Fig. 2). Fig. 3 shows the dependence of the adhesive strength of an epoxy resin foam plastic to steel on the number of heating cycles. It may be seen that the strength of the boundary layer gradually drops with increasing number of heating cycles. To determine the adhesive strength of polystyrene foam to a steel surface, polystyrene granules obtained from the NIIPP (Nauchnoissledovatel'skiy institut plasticheskikh produktov = Scientific Research Institute of Plastics) were used. Foaming was carried out in closed steel molds (Fig.4). The dependence of the adhesive strength of Styropor on the weight by volume (Fig.5) and on the temperature of foaming (Fig.6) was investigated. Foaming was made at 125°C for 1 hour. The character of the withdrawal of the cone from the foam plastics is related to the structure of the epoxy resin foam plastic at the interface with the metal. In all experiments, a very thin epoxy resin film was found to be formed on the cone. It covers the whole surface of the cone and, therefore, the adherend of the film is considerably larger than the cross section of the bubble walls at the interface. The structure of foam at

Card 2/3

87650

Study of Adhesion of Foam Plastics. Report S/191/60/000/012/011/016 No.1. Adhesion of Foam Polyepoxide and Foam B020/B066 Polystyrene to Metals

the interface differs from that in the interior of the foam plastic. The bubbles of an epoxy resin foam with a weight by volume of 0.05 - 0.13 g/cm are larger at the interface than in the interior (Fig.8, a and b). The lighter the foam plastic, the greater is this difference. At a weight by volume of more than 0.13 g/cm³, the size of bubbles is the same at the interface with the metal and in the interior (Fig.9, a and b). The adhesive strength of epoxy resin foam plastic decreases with the weight by volume, while that of polystyrene foam increases linearly with it. With increasing temperature of foaming, the adhesive strength first increases and then drops. The maximum of the curve in Fig.6 lies at 125°C. There are 9 figures and 4 Soviet references.

Card 3/3

的影響和

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754910004-0"

3,1810

37309 s/169/62/000/004/093/103 D290/D302

AUTHOR:

Taranova, O.G.

TITLE:

The absolute photometry of the spectra of aurorae and

the night sky

PERIODICAL:

Referativnyy zhurnal. Geofizika, no. 4, 1962, 3, abstract 4G141 (V sb. Spektr. elektrofotometr. i radiolokats. issled. polyarn. siyaniy i svecheniya nochn. neba. no. 6, M., AN SSSR, 1961, 28-30)

TEXT: It is possible to measure the absolute intensity of radiation very accurately by simultaneously using a spectrograph and a calibrated photometer. Aurorae were studied using the spectrographs CN-48 (SP-48) and CN-50 (SP-50) during February and March, 1960, at the Loparsk station (near Murmansk); electrophotometric measurements were made simultaneously. The electrophotometer was calibrated using moonlight on a night when the atmosphere was very clear; therefore, the conditions were very similar to the conditions during the measurements of the aurorae and the night sky. The spectro-graph was calibrated in relative units using a standard lamp and a Card 1/2

The absolute photometry of the ...

S/169/62/000/004/093/103 D290/D302

THE PART OF THE PROPERTY STATE OF THE PART OF THE PART

magnesium oxide diffusion screen. Measurements were made between 10000 - 12000 Å and 4800 - 6000 Å on March 15-16 and on March 31. The SP-50 spectrograph was used on March 15-16; the photometer replands (9-5), (4-1), and (5-2) were observed in the 10000 - 12000 Å range. The SP-48 spectrograph was used on March 30-31; the photometer recorded radiation from the zenith during all the exposures. The spectral intensity distribution was expressed in terms of the emission at 5577 Å. The absolute intensity of the radiation from the zenith passed by the 5577 Å filter was determined by integrating graphic intensities are found by comparing the spectrograph and photometer records that have been taken simultaneously; thus the enerthe absolute intensities of the lines at 5004, 5200, 5228, 5632, by this method. [Abstractor's note: Complete translation].

Card 2/2

1

(政策を指数)

TARAKANOV, O.G.; GUSEV, I.G.

Using thermistors in determining molecular weights. Plast.massy (MIRA 14:10)

(Molecular weights—Measurement)

(Transistor circuits)

32360 8/191/62/000/001/005/006 B139/B110

HERET SEED FOR THE WAY SEED FOR SEED FO

15.8460

AUTHORS:

Tarakanov, O. G., Demina, A. I., Vasil'yev, B. V.

TITLE:

٠.

Research into the adhesion of foam plastics. Communication

II. Adhesion properties of foam polyurethan and foam

polystyrene

PERIODICAL:

Plasticheskiye massy, no. 1, 1962, 41-43

TEXT: The dependence of the adhesive power of foam plastics to metals on temperature, cleanness of the metal surface, and duration of foaming was investigated. For this purpose, foam polystyrene specimens with an embedded metal cone were heated in a thermostat for 30 min, the cone was then torn out, and the stress per cm² of metal surface was measured. The maximum adhesive power (\sim 3 kg/cm²) sharply decreased above 70°C. The adhesive power of the plastics on metal was largely influenced by the duration of foaming. The optimum foaming time must be specially determined for each case and probably depends on the foaming agent content of the initial material. Both in the presence and absence of an oxidation layer on the cone surface, the adhesion of the plastics is stronger than Card 1/3

32360 8/191/62/000/001/005/006 B139/B110

Research into the adhesion

their cohesion. Polystyrene is assumed to adhere to the oxidized metal surface by means of covalent binding between carbon and the metal ion of the oxidized surface. In the case of foam polyurethan, the adhesive power. increased linearly with increasing volume weight. Foam plastics with a volume weight of up to 0.14 g/cm3 showed tearing off from all metal surfaces investigated due to cohesion; plastics with a higher-volume weight showed mixed tearing off. The specimens were also heated to 150°C in a two-hour cycle, or constantly for 3, 6, 9, or 12 hrs. Even a 12-hr heating did not reduce the adhesive power (10.0 kg/cm² at 0.12 g/cm³ volume weight), nor did several days; storage of specimens in distilled water. Finally, the conical metal cores were moistened with water before being cast in with plastics (foam polyurethan), and the filled molds were then left for 1 hr at 70°C, did not impair the adhesive power. Cleaning of the metal core may be restricted to polishing with emery and rinsing with hot acetone. Foam polyurethan was prepared by formula no. 3 of the Fiziko-khimicheskaya laboratoriya Vladimirskogo NIIS (Physicochemical Laboratory of the Vladimir NIIS) There are 3 figures, 3 tables, and 5 references: 3 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: B. A. Dombrow, Polyurethanes, ch. 3, Reinhold Publishing Corp., U.S.A., 1957; J. E. Rutzler, Adhesives Age,

A STATE OF THE STA

Research into the adhesion 2, 7, 28 (1959).

32360 \$/191/62/000/001/005/006 B139/B110

X

Card 3/3

S/191/62/000/003/003/010 B101/B147

AUTHORS:

Sokolova, D. F., Tarakanov, O. G.

TITLE:

Gelatinization of polyvinyl chloride pastes

PERIODICAL:

Plasticheskiye massy, no. 3, 1962, 5-7

TEXT: In connection with the problem of production of foamed plastics, the authors studied the gelatinization of the polyvinyl chloride (PVC) resins Igelit F and P (Eastern Germany), Vestolit P (Federal Republic of Germany), and the Soviet type M(M), as well as of vinyl chloride (VC) copolymers with (10-15%) acrylonitrile (I); methacrylic acid (II); methacrylate (III); or vinyl acetate (IV). These copolymers were synthesized by emulsification in aqueous phase at 12 atm, 60°C, for 10 hrs. The total monomer-to-H2O ratio was 1:3, ammonium persulfate served as initiator (0.5% by weight of the monomers); MK(MK) emulsifier (0.5% by weight of the aqueous phase) was used since gelatin yielded poorly soluble copolymers. VC copolymers with I and II were unsoluble in dioctyl phthalate (DOP). A 10% paste of the other resins in DOP was heated, the viscosity, q, versus temperature was plotted, and maximum viscosity was Card 1/2

Gelatinization of polyvinyl ...

B/191/62/000/003/003/010 B101/B147

determined as gelatinization temperature. The temperature at which transparency occurred was also measured. For commercial resins, the gelatinization temperature was 112-129°C, for the copolymer with III 61°C, for the copolymer with IV 60°C. Also in tricresyl phosphate, the gelatinization temperature of the VC + IV copolymer was about 50°C below that of pure PVC. The gelatinization temperature of commercial PVC showed a direct dependence on the molecular weight: it increased with increasing viscosity of the 1% solution in dichloro ethane. On Igelit F reprecipitated from dichloro ethane by methanol and dried at different temperatures, and increase in gelatinization temperature (by 28°C) was observed at elevated drying temperature. The decrease in gelatinization temperature of Igelit dried at 170°C is explained by structural changes. There are 2 figures, 4 tables, and 7 references: 3 Soviet-bloc and 4 non-Soviet-bloc. The reference to the English-language publication reads as follows: Aimi Misanori, Japan Plast., 2, no. 4, 14 (1958).

Card 2/2

S/191/62/000/004/003/017 3110/B138

5.3630

AUTHORS:

Orlov, V. A., Tarakanov, O. G.

TITLE:

Polymerization of di-β,3'-chloro-ethyl ester of vinyl

phosphinic acid

PERIODICAL:

Plasticheskiye massy, no. 4, 1962, 6-8

TEXT: The kinetics of the block polymerization of CH_2 = $CHP(0)(0C_2H_4C1)_2$ (I) was studied. The fraction used was produced at 140-143°C 2-3 mm Hg, d_4^{19} = 1.3196, n_D^{19} = 1.4780; the initiators benzoyl peroxide (II), azoisobutyric acid dinitrile (III), isopropyl benzene hydroperoxide (IV), lauryl peroxide (V), tertiary butyl peroxide (VI) were fresh. $P = K\Delta V$, where P = polymerization depth, γ_0 ; ΔV = reduction in volume of the polymerizing system as percentage of initial value; K = coefficient. $K\approx 8$ according to the polymer yield. Maximum polymer yield was 70-85 % with the catalysts mentioned. The polymerization rate is at first constant, decreasing from a certain depth of conversion. Air accelerates it.

Card 1/3

CIA-RDP86-00513R001754910004-0 "APPROVED FOR RELEASE: 07/13/2001

5/191/62/000/004/003/017 3110/3135

Polymerization of di-3,3'-chloro-ethyl... Depending on the test conditions, a viscous, resinous substance, or an insoluble, elastic, yellow product, is formed. Repeated precipitation from a solution of the resinous substance in acetone by means of diethyl ether, will separate the polymer as a solid, brittle, white, strongly hygroscopic substance which is soluble in polar organics. The ebullioscopically measured molecular weight was 2700, that of the polymer isolated at 5-8 % conversion depth, 1200. 21-hr fractionation of the resin at 110°C in the presence of 4.44 % by weight of VI yielded four fractions with specific weights of 13.2-40.6, specific viscosities of 0.096-0.335 (5 % acetone solutions), and molecular weights of 1900-6000. The softening temperature, determined thermomechanically, was $v_{in} = -6640/T + 17.436$ holds for polymerization of I with III. The activation energy of polymerization of I was 30.4 kcal/mole. For polymerization of I with III: $v_{in} = 0.105\sqrt{C} - 0.00198$, where C = initiator

concentration in molar parts. The presence of 0.1-0.7 % water reduces the concentration in motar parts. The presence of 0.1-0.1 % water reduce rate of polymerization several times. It is suggested that the low molecular weights of polymeric esters of vinyl phosphinic acid are

Card 2/3

Polymerization of di- β , β !-chloro-ethyl...

S/191/62/000/004/003/017 B110/B138

probably due to the rapid breaking of the growing chain. According to C. Arcus, R. J. S. Matthews (see below), this occurs as follows:

$$-CH_{2} \xrightarrow{CH_{2}} CH_{2} - C$$

The stable radical may also develop owing to reaction of the growing radical with -OR. There are 4 figures and 2 tables. The most important English-language reference reads as follows: C. Arcus, R. J. S. Matthews, J. Chem. Soc., 4607 (1956).

Card 3/3

١

X

S/191/62/000/006/009/016

15.8140

AUTHORS:

Polyakov, Yu. N., Tarakanov, O. G.

TITLE:

Physicomechanical properties of elastic foam polyurethane. Communication I. Dependence of relaxation properties

of elastic foam polyurethane on the temperature

PERIODICAL:

Plasticheskiye massy, no. 6, 1962, 34-36

from 20 to ~145°C hardly depends on temperature, but increases very strongly at negative teleratures. For the sample with 50% deformation $(\sigma_1 = \sigma_0 - \sigma_1)$, the rate of relaxation is constant at 20-100°C, between 100 and 120°C it increases by two to three times and then remains Card 1/3

ertiorespentionalisment in the comment of the comme

Thysicomechanical properties..

S/191/62/000/006/009/016 B1 10/B138

constant up to 145°C. When the sample was deformed for 1 hr, the recovery capacity of foam polyurethane between 100 and 120°C dropped from 85-90% to 8-4%. Residual deformation ϵ_{res} increased between 100 and 120°C from

3-5% to 90-96%. Since no changes existed in the unloaded state, the change in the elastic proporties of foam polyurethane takes place only after longer loading, and thus has a relaxation character. Foam plastics from polyurethane can not, therefore, se used as elastic parts, but are suitable for heat insulation up to higher temperatures. When foam polyure thane is cooled below 20°C, the stress change increases too. Result: (1) At low temperatures, the relaxation rate increase is not based on changes in the polymer, but on the increase of the total stress due to reduced mobility of the macromolecules. (2) No irreversible changes are found up to liquid nitrogen temperature. (3) When elasticity is lost at >100°C, internal, irreversible processes take place. This is proved by the change of the "relative" relaxation rate and increase of the irreversible deformation. It is assumed that rupture of the primary valency bonds occurs through oxygen in the air, and the radicals formed here are bonded across oxygen bridges. This strengthens the lattice and Card 2/3

Physicome chanical properties....

S/191/62/000/006/009/016 B110/B138

causes high residual deformation. The same presumably takes place during aging, but at a much lower rate. Foam polyurethane can only be used as shock absorber between -33 and -35°C. There are 5 figures.

Card 3/3

经关于新的估价

TO THE PROPERTY OF THE PROPERT

Physicomechanical properties of elastic foam polyurethan.

Physicomechanical properties of elastic Temperature dependence of the deformation properties of elastic Temperature dependence of elastic Tem

39638 S/191/62/000/008/008/013 B124/B180

15.8050

AUTHORS:

Tarakanov, O. G., Krasnoperova, A. V.

TITLE:

Foaming of polyvinyl chloride pastes. Study of factors

affecting the foam structure

CONTROL OF THE CONTRO

PERIODICAL:

Plasticheskiye massy, no. 8, 1962, 30-33

TEXT: Investigation was made into the foaming of pastes based on Igelit-F PVC emulsion with dioctyl phthalate (DOP) plasticizer mixed, at a weight ratio of 100:200, for 30 min at room temperature. At 40°C viscosity was ~100 cP. The best foam structure is achieved with a resin containing 0.5% and DOP with 0.7% H₂O, and viscosity between 250 and containing 0.5% and DOP with 0.7% H₂O, and viscosity between 250 and 200 cP. Slower heating produces better structures. The resin in the plasticizer must swell to the maximum for P/C foam pastes. Dry CO₂ and dried paste components will retard the increase in viscosity and improve foaming; which starts at 130 instead of 25C cP. The following surfactants were tested: Ufapast O sodium sulfonate, sodium sulfonol HN-1 (NP-1), emulsifier MK(MK), fluoroester (ester of glycerin and fluoric acid telomers), and a soy phosphatide. The surfactant was dissolved in the

Card 1/2

。 第4年,1987年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年 1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1

Foaming of polyvinyl chloride ...

s/191/62/000/008/008/013 B124/B180

plasticizer at a weight ratio of 3: 100, and mixed with the resin. When these surfactants were added to a paste of unrefined dry resin and dry plasticizer, the structure of the foams was only altered at low viscosities. Foaming with surfactants was much improved when the resin was first washed several times in 1% NaOH and distilled water and dried at 60°C to constant weight. V. I. L'vova and A. G. Oshuyev are thanked for supplying the fluoroester. There are 6 figures. The English-language reference is: M. F. Fuller, Ind. Eng. Chem., No. 4, 730 (1957).

 \bigvee

Card 2/2

\$/190/62/004/005/005/026 B110/B144

5.5600

AUTHORS:

Tarakanov, O. G., Okunev, P. A.

TITLE:

Chromatographic fractionation. I. Modified column for

polymer fractionation

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 4, no. 5, 1962,

683-689

TEXT: The chromatographic column was modified to develop a new method of polymer introduction. Pure solvent and precipitant are filled into 1 and 3, respectively (Fig. 1). Pure solvent runs from 1 into 3 at the same rate as the solution flows out of the column, to enrich the solvent in the mixture in 3. The polymer is filled into 7. First, 7 is filled with the precipitant and heated to boiling to mix the solution thoroughly. The amount of dissolved high-molecular fractions increases as the amount of solvent in the mixture increases. A certain solvent level in 7 is maintained by 11 with a photorelay and a hollow, colored glass sphere. When the level is reached, the photorelay interrupts the solenoid current, magnetic cock 5 stops the supply into 7. The air in the solvent is removed

Card 1/B

Chromatographic fractionation ...

\$/190/62/004/005/008/026 B110/B144

through three-way cock 10. Glass cylinder 13 (~ 35 cm long; outside diameter 25 mm) has a Schott filter soldered to its bottom. The packing washed with distilled water is boiled in the solvent for 2-3 hrs, and the column is filled with liquid. Copper shell 12 (diameter: 25 mm, wall thickness: 7 mm) guarantees a continuous temperature drop along the column which is heated at the top with heating coil 8 (60-80 v) and cooled at the bottom. A simplified unit without packing (Fig. 2) is less efficient. However, it allows the use of larger amounts and elimination of polymer destruction by working without packing. The columns were used to determine the integral curves for the viscosity of cellulose triacetate (methylene chloride - heptane, flow rate 5-10 ml/hr, time of fractionation .. 4 days) and the efficiency of this method was proven. There are 3 figures.

ASSOCIATION:

Vladimirskiy nauchno-issledovatel'skiy institut

sinteticheskikh smol (Vladimir Scientific Research Institute

of Synthetic Resins)

SUBMITTED:

March 24, 1961

Card 2/6

Chromatographic fractionation ... S/190/62/004/035/056/026

Fig. 1. Unit for polymer fractionation. Legend: (1) Jolvent container; (2) connecting tube; (3) mixer; (4) solenoid; (5) magnetic cock; (6) reflux condenser; (7) vessel for polymer dissolution; (8) heating coil; (9) Schott filter; (10) discharge pipe with three-way cock; (11) discharge tube with floating hollow sphere; (12) copper shell; (13) column; (14) magnetic stirrer; (15) contact thermometer;

Fig. 2. Column without packing for polymer fractionation. Legend: (1) Solvent container; (2) mixer; (3) reflux condenser; (4) dropping tube; (5) vessel for polymer dissolution; (6) Schott filter; (7) contact shell; (11) column.

Card 3/6

TARAKANOV, O.G.; VASIL'YEV, B.V.; PERRFECHKIN, L.P.; ZASPINOK, G.S.

Nature of the contamination of the solutions of cellulose triacetate. Khim. volok. no.3:43-46 '63. (MIRA 16:7)

1. Vladimirskiy nauchno-issledovatol'skiy institut sinteticheskikh smol.

(Cellulose acetates)

(Textile fibers, Synthetic)

OKUNEV, P.A.; TARAKANOV, O.G.

MCW 324 91 b

Fractionation of cellulose triacetate in a modified column. Khim.volok no.6:44-46 '63. (MIRA'17:1)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov, g. Vladimir.

A CONTROL OF THE PROPERTY OF T

KOLPAKOV, S.V., inzh.; TAKUNOVA, S.T., inzh.; TARAKANOV, O.G., inzh.

Properties of rigid foamed polyurethanes. Stroi. mat. 9 no.5: 39-40 My 163. (MIRA 16:7)

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

TARAKANOV, O.G.; YEREMINA, Ye.G.; Prinimali uchastiye: GALANTSEVA, S.S., laborant; ZHUKOVA, V.Ya., laborant

ACTOR DE LA

Foaming in nonaqueous solutions. Part 1: Selection of frothing agents for plasticizers. Koll.zhur. 25 no.5:596-599 S-0 '63.

1. Vladimirskiy nauchno-issledovatel'skiy institut sinteticheskikh

ACCESSION IR: **8/0131/64/000/006/0006/000** Orlov, V. A.; Tarakenov, O TITLE: Copolymerisation of di-'-chlorosthyl ester of vinylphosphonic acid. SOURCE: Plasticheskiye massys, no. 6, 1964, TOPIC TAGS: vinylphosphomic acid ester copolymer, copolymerisation, vinylphosphonate methacrylic acid copolymer, vinylphosphonic ester styrene copolymer, vinylphosphonate allyl alcohol copolymer, polymerization mechanism, induction period, relative reactivity, styrene, allyl alcohol, vinylphosphonic acid dichlorethyl ABSTRACT: The kinetics of ecopolymerisation of 41-8, A'-chloroethyl ester of vinylphosphomic acid (BCVP) with methacrylic acid (MMK), with styrene and with allyl alcohol were studied. Freshly recrystallized bensoyl percende was used as the initiator. In the concentration range of 0.2-2.05 by weight of the monomer the relation between the initial polymerisation rate (vinit) and initiator concentration (C) is linear: Vinit : 2.35 /C - 0.019. The polymerisation rate-temperature relation for 105 mm-505 DOVF in vector is expressed by 16 Vinit = -5210/T+ n is expressed by 16 vints a -5210/T+

ACCESSION NR: AP4039940

14.1, where Vinit is percent of volume reduction of the reaction mass in 1 minute and T is the absolute temperature. The presence of atmospheric oxygen produces an induction period, but then polymerization proceeds more rapidly than in vacuum. This induction period is reduced with increase in temperature in the 50-80C range. The polymerization mechanism involves initiation due to the decomposition of the initiator and termination resulting from the recombination of two polymeric radicals. Regardless of initial monomer mixture, the copolymer is enriched in MAK; the relative reactivity of DCVP and MAK was calculated: $r_1 = 0.1$, $r_2 = 1.7$. The relative reactivity of DCVP and styrene were also found: r1 = 0.2, r2 = 2.2. DCVP is more active on copolymerization than the diethyl ester of inylphosphonic acid. DCVP did not copolymerize (or there was only a small amount of conversion at low alcohol concentrations) with allyl alcohol at 50-100C and starting mixtures containing 5-50% allyl alcohol, probably due to the inhibiting action of the OH group on DCVP. "S. A. Sokolov participated in the experimental work." Orig. art.

ASSOCIATION: None

。 第一章

ACCESSION NR: APhoholog7

8/0190/64/006/006/1157/1157

AUTHORS: Orlov, V. A.; Tarakanov, O. G.

TITLE: Thermal destruction of polyurethanes (letter to the editor)

SOURCE: Vy#sokomolekulyarny#ye soyedineniya, v. 6, no. 6, 1964, 1157

TOPIC TAGS: polyurethane, toluylenediisocyanate ethyleneglycol polyurethane, hexamethylenediisocyanate ethyleneglycol polyurethane, polyurethane thermal destruction, destruction product, polyurethane specific viscosity

ABSTRACT: Studies were conducted on thermal decomposition (in vacuum) of a polyurethane based on toluylenediisocyanate and ethyleneglycol (I) and of polyurethane based on hexamthylenediisocyanate and ethyleneglycol (II). The composition of gases and volatile products obtained at 2500 was analyzed chromatographically. Specific viscosities of polymer solutions heated at 1900 were recorded. It was found that the decomposition of polyurethane I started at 1700, of polyurethane II at 1900. The gaseous phase contained carbon dioxide, ethylene oxide, acetaldehyde, and a number of unidentified products. The thermal decomposition of polyurethane I yielded nearly twice as much carbon dioxide as the

Card 1/2

ACCESSION NR: AP4040497

decomposition of polyurethane II. The volatile decomposition products of polyurethane I contained large amounts of toluylenediamine and only a little ethyleneglycol, while the thermal decomposition products of polyurethane II contained substantial quantities of ethyleneglycol but no free hexamethylenediamine. The specific viscosity of the solutions of polyurethane I dropped sharply after the beginning of heating, while polyurethane II became insoluble. The authors conclude that the patterns of thermal destruction suffered by polyurethanes I and II differ

ASSOCIATION: none

SUBMITTED: 27Feb64

DATE ACQ: O6Jul64

ECL: 00

SUB CODE: OC

NO REP SOV: 000

OTHER: 000

Card 2/2

ELECTIVE CONTRACTOR

CONTROL OF THE PROPERTY OF THE

FOMENKO, B. E.; ORLOV, V.A.; TARAKANOV, O.G.

Studying the kinetics of polyurethane formation by the change of the specific volumetric resistance of the thermosetting system.

Plastemassy no.10:47-49 64. (MIRA 17:10)

TARAKANOV, O.G.; VAKHTINA, I.A.; ORLOV, V.A.

K' etics of gas evolution in the reaction of teluylene disseyanate with water. Plast, massy no.12:45-46 164.

(MIRA 18:3)

AEKO 人名意雷特·格特·巴拉尔·罗拉尔·西克斯·罗尔·罗尔·西沙斯尔·罗尔·罗尔·罗尔·罗尔

L 22201-65 EWT(m)/EPF(c)/EPR/EWP(J)/T Pc-4/Pr-4/Ps-4 RPL WW/JWD/RM ACCESSION NR: AP5001484 8/0190/64/006/012/2189/2192

AUTHOR: Vasil'yev, B.V., Tarakanov, O.G.

TITLE: The effect of temperature on the crystallization characteristics of polyurothenes

SOURCE: Vysokomolekulyarny/e soyedineniya, v. 6, no. 12, 1964, 2189-2192

TOPIC TAGS: polyurethane, polyurethane crystallization, polymer crystallinity, annealing temperature, hexamethylene disocyanate, polymer heat treatment

ABSTRACT: The dependence of crystallinity on the annealing temperature of polyurethanes was studied by X-ray analysis with samples produced from hexamethylene-disocyanate plus ethylene-, diethylene-, triethylene-, or butylene-glycol. Amorphous and glassy specimens were prepared by heating to a temperature 20C above the melting point and uenching at -78C, annealed at the desired temperature, and again cooled to preserve attained degree of crystallinity. Thermal treatment at -25 to 0C/gave viscoelastic and 2: bbery samples, and the crystallization at temperatures above 0C proceeded in stages, as expected from published studies on linear polymers. Coarse crystalline orders formed at lower temperatures were transformed into improved orders and threedimensional crystals at higher temperatures, during a "second stage of crystallization". The change was demonstrated by the (200) reflex angle intensity. The log half width Cord 1/3

· L 22201-65 ACCESSION NR: AP5001484

of the interference peak (200), which is related to the order of hydrogen bonds in the planar lattice, decreases insignificantly in the first but more rapidly in the second stage of crystallization, as shown in Figure 1 of the Enclosure. Orig. art. has: 2 figures.

ASSOCIATION: Vladimirskiy nauchno-issledovatel'skiy institut sinteticheskikh smol (Vladimir Scientific Research Institute for Synthetic Resins)

SUBMITTED: 26Feb64

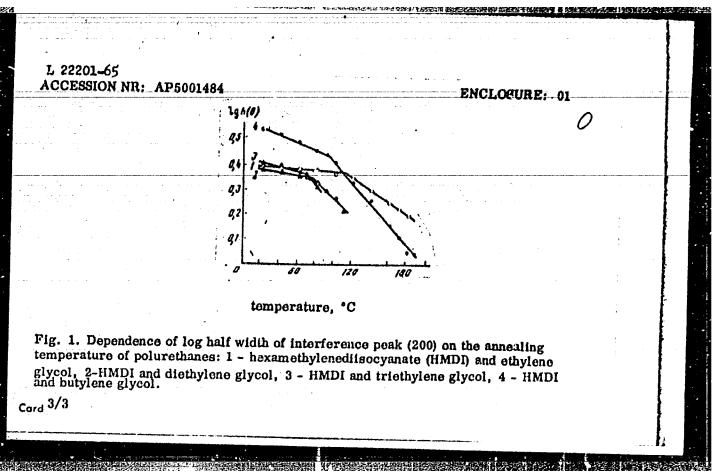
ENCL: 01

SUB CODE: OC

NO REF SOV: 001

OTHER: 010

Cord 2/3



5 42303003 EFF(C)	/EPR/EMP(3)/EMT(m)/T Pc-4/Pr-4/	Pe-4 RPL W	M/JMD/RM	
ACCESSION NR: APSO	01485	8/0190/64/	006/012/2193/2	196	29
AUTHOR: Vasil'yev,	B. V.; Tarakano	v. 0. C.	·		18
TITLE: The melting	of crystalline	polyurethenes			B
Source: Vysokomole	kulyarnyya soyed:	ineniya, v. 6, no	. 12, 1964, 21	93-2196	
TOPIC TAGS: polyus polymor heat treatm dissocyanate	rethane melting, onent, annealing to	crystalling polyυ emperature, polyπ	rothane, polymer lattice, he	er crystal	linity,
ABSTRACT: The dependence of the annealing temperintermolecular force order. Specimens pethylene-, triathylene-, triathylene-, slowly coole and annealed for 3 hydrogen bonds and (200) and (002) reference.	erature was studies of the lattice roduced from hexelene, or butylened to room tempes. hrs. at various Van der Waals for	ed in order to de e in the anisotro amethylene diisoce-glycol were hea ature to obtain a temperatures. Cr	efine the break pic directions examate/and etheted to 200 about high degree of the transfer and by X-ray and by X-ray and	down of the of crystal ylene, dive the mele of crystall orresponding the crystal years of c	ting
Card 1/2			••	15	
		•	•	•	
returned to the second of the	and the second of the second o			· · · · · · · · · · · · · · · · · · ·	s de la companya della companya della companya de la companya della companya dell
E ■					

L 41363-65

ACCESSION NR: AP5001485

lattice started with the slow breakdown of Van der Waals forces, and it was followed after heating to approximately 20C higher temperatures by the rapid rupture of hydrogen bonds. The retarded and more rapid rupture of hydrogen bonds is ascribed to their higher energy, which prevents the development of high amplitude vibrations in the planar lattice until temperatures close to the melting point are reached. Orig. art. has: 2 figures and 2 formulas.

ASSOCIATION: Vladimirskiy nauchno-issledovatel'skiy institut sintetichêskikh smol (Vladimir Scientific Research Institute for Synthetic Resins)

SUBMITTED: 26Feb64

ENCL: 00

SUB CODE: HT

NO REF SOV: 003

OTHER: 003

Card 2/2

MIKHAMOV, S.A.; TAMAKAMOV, O.G.

Foam formation in gelatin solutions. Plast. massy no. 2:62-62

(M.R.A. 17:12.)

L 25h01-65 EMT(m)/EPF(c)/EMP(j) Fc-h/Pr-h JAJ/RM

ACCESSION NR: AP5002831

8/0191/65/000/001/0058/0059

b

AUTHOR: Danilova, A.V.; Tarakanov, O.G.

TITLE: Foaming in polyvinylchloride pastes. Effect of moisture and surface active agents on foam stability

SOURCE: Plasticheskiye massy, no. 1, 1965, 58-59

TOPIC TAGS: polyvinylchloridefoam, foam stability, surface active agent, soya phosphatide, foam moisture content/Igelit-P resin, DOP plasticizer, emulsifier MK, sulfonate Ufapast-O

ABSTRACT: Continuing previous studies, the authors experimented with an emulsion type polyvinylchloride (PVC) resin of East German manufacture, known as "Igelit-P", and with DOP plasticizers to evaluate the effects of moisture in the PVC paste and of surface active agents on the stability of foams obtained from such pastes. The results indicate that stability deteriorates significantly when the paste contains as little as ~0.8% water by weight. Drying at temperatures up to 80C does not lower stability. Surface active agents used in the experiments included emulsifier "MK", soya phosphatide and a Norwegian Na-sulfonate Ufapast-0, added to purified resin in quantities comprising 3% by weight of the plasticizer. Use of an appropriate surface active agent is

15.340.95**3.1**40

L 25h01-65	
ACCESSION NR: AP5002831	
recommended. Orig. art. has: 3 tables and 1 figure	9.
ASSOCIATION: none	
SUB MITTED: 00 ENCL: 00	SUB CODE: MT
NO REF SOV: 001 OTHER: 001	
	1
	• <u>• ;</u>
Card 2/2	
the same of the sa	

TO THE PROPERTY OF THE PROPERT

L 27794-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM 8/0191/65/000/002/0041/0042

AUTHOR: Polyakov, Yu. N.; Antsupov, Yu. A.; Tarakanov, O.G.

20

TITLE: The dependence of the mechanical properties of flexible cellular polyvinyl chloride on volumetric weight

SOURCE: Plasticheskiye massy, no. 2, 1965, 41-42

TOPIC TAGS: polyvinyl chloride, polyvinyl chloride foam, polymer mechanical property, polymer volumetric weight, cellular polymer

ABSTRACT: The mechanical and elastic properties of flexible polyvinyl ch'oride with an open cellular structure (less than 5% closed cells) were measured in order to define the dependence of these properties upon volumetric weight. The specimens, which were produced by a non-pressure method, had volumetric weights of 0.05-0.5 g/cc. Deformation and elasticity were measured under static and dynamic conditions, recording the polymer behavior at constant deformation rates of 8 mm/min. or under impact-compression, respectively. The rigidity of the material increased non-linearly with increasing volumetric weight 1, shown in Fig. 1 of the Enclosure. The behavior at constant deformation is ascribed to the decreasing effect of the bending of cellular walls, which is negligible at 1 exceeding 0.3-0.4 g/cc. The dynamic modulus of elasticity, measured

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754910004-0

L 27794-65

ACCESSION NR: AP5004315

0

under impact compression, is also affected by the wall flexibility but is determined primarily by the elasticity of air-cells up to volumetric weights of approximately 0.3 g/cc. At higher values of χ the behavior of the material depends primarily on the properties of the polymer, approaching those of solid polyvinyl chloride. The significance of the critical value $\chi = 0.3$ g/cc is also proved by a marked maximum of the rebound resilience of specimens tested under equal impact strengths. Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 00

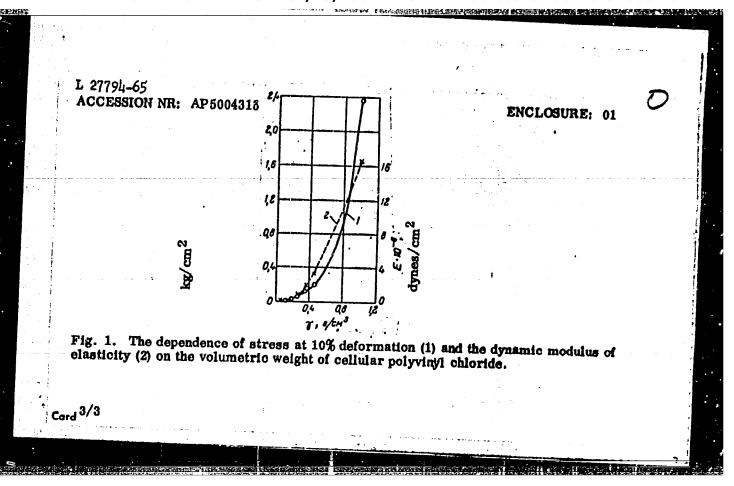
ENCL: 01

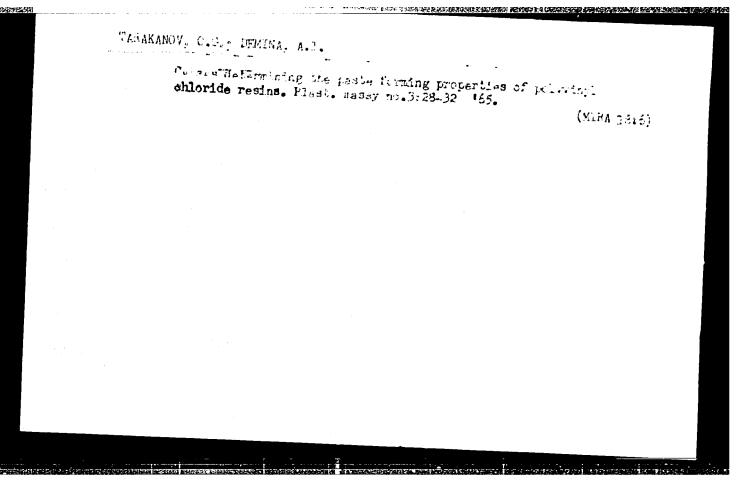
BUB CODE: OC, OC

NO REF SOV: 004

OTHER: 003

Card 2/3





ORLOV, V.A.; TARAKANOV, O.G.

Study of the thermal degradation of polyurethane from tolylenediacocyanate and ethylene glycol. Plast. massy no.5;
(MIRA 18:6)

TARAKANOV, O.G.; YEREMINA, Ye.G.

Foam formation in nonaqueous media. Part 2: Characteristics of breakage of foams based on dioctyl phthalate. Koll. zhur. 27 no.2:274-278 Mr-Ap '65. (MIRA 18:6)

1. Vladimirskiy nauchno-issledovatel'skiy institut sinteticheskikh smol.

TARAKANOV, O.G., DEMINA, A.I., DUEYAGA, Ye.G.

Structure formation in nonaquaous foam films as a factor
of their stabilization. Dokl. AN SSSR 163 no.31684-685 J1 '65.
(MIRA 18:7)

1. Vladimirskiy nauchno-issledovatel'skiy institut sinteticheskikh smol. Submitted January 11, 1965.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754910004-0

EPF(c)/EPR/EIP(j)/EMA(c)/EMT(m)/T Pc-h/Pr-h/Ps-h . JAJ/RY/SA RPL UR/0191/65/000/006/0011/0013 ACCESSION NR: AP5014685 678.664'420.01:536.495

AUTHOR: Orlov, V.A.; Tarakanov, O.G.

TITLE: Thermal degradation of polyurethane made from hexamethylene dilsocyanate and ethylene glycol

SOURCE: Plasticheskiye massy, no. 6, 19,5, 11-13

TOPIC TAGS: thermal degradation, polyurethane, hexamethylene diisocyanate, ethylene glycol, toluylene disocyanate, polymer heat stability

ABSTRACT: The article discusses the effect of the structure of the isocyanate on the thermal stability of polyurethanes I and II (I = polyurethane prepared from toluylene diisocyanate, H - from hexamethylene diisocyanate and ethylene glycol). The degradation kinetics of I and II were studied at various temperatures, in helium, in a vacuum, and in nitrogen at various pressures. The degradation products were analyzed chromatonitrogen at various pressures. The degradation products were analyzed chromatographically, and IR spectra were taken. The evolution of gas from polyurethane I was twice as large as from polyurethane II. Specific viscosity curves of the polymer solutions show that the molecular weight of I decreases at once, whereas II becomes cross-linked, becoming only partly soluble. In I, the urethane group splits up to form Card 1/2

L 62173-65

ACCESSION NR: AP5014685

CO₂, an amine, an olefin, or a secondary amine, while in II, the urethane group splits into the isocyanate and an alcohol. It is concluded that the isocyanate substituent affects the decomposition of the urethane group. The mechanism of this influence is elucidated. Summing up all the data obtained, the authors find that polyurethane II is more heat-stable than polyurethane I. Orig. art. has: 4 figures and 4 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: OC, MT

NO REF SOV: 001

OTHER: 004

Card 2/2

L 60040-65 E/JG(j)/E/JT(m)/EPF(c)/E/JF(j)/E/JA(h)/E/JA(c)/E/JA(1) Pc-4/Pr-4/Ps-4/Peb ACCESSION NR: AP5018040 RFL W/JAJ/ UR/0191/65/000/007/0043/0046 RM 678.564.019.391

AUTHOR: Nevekly, L. V.; Tarakanov, O. G.; Belyakov, V. K.

TITLE: Light aging of polyurethenes

SOURCE: Plasticheskiye massy, no. 7, 1965, 43-46

TOPIC TAGS: polyurethane, ultraviolet radiation, polyurea, polymer aging, polymer film, optical density, wetting angle, polymer viscosity

ABSTRACT: The article describes the effect of ultraviolet radiation on polyurethanes (polyurethane-1, -2, -3, -4), prepared from toluylenedisocyanate, and on polyurea-2, obtained from m-toluylenediamine and urea. After irradiation for 50, 100, 150, and 200 hrs., the following characteristics of the polymer film samples were measured: (1) Optical density change $\Delta D = D_1 - D_2$, (D_1 and D_2 being the optical density of the irradiated and original film, respectively); (2) Angle of wetting of the film by water; (3) Specific viscosity of the polymer solutions; (4) Rate of gas evolution during irradiation. It was found that an increase in the quantity of carbamide groups in polyurethane causes an increase in the color intensity of the irradiated samples, which turned yellow. This was

Card 1/2

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754910004-0

T-60040-65

ACCESSION NR: AP5018040

associated with a rapid evolution of gas, which dropped off with time of irradiation. Mass-spectrometric analysis of the gaseous products of polyurethane containing 3% carbamide groups established the presence of CO₂, CO, H₂, H₂O, CH₄, HCN, and CH₂O. ESR spectra showed the presence of free radicals and will be discussed in a later report. The viscosity of the soluble part of the irradiated polymers remains practically unchanged during the course of irradiation. Measurements of the angle of wetting lead to the conclusion that, as irradiation goes on, hydrophobization of the surface of the films takes place. Orig. art. has: 4 figures, 1 table, and 2 formulas.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE:

C

NO REF SOV: 004

OTHER: 011

Card 2/2

"APPROVED FOR RELEASE: 07/13/2001 C

CIA-RDP86-00513R001754910004-0

L 27627-65 EWT(m)/EPF(c)/EWA(d)/T/EWP(j)/EPR/EWA(c) Pc-4/Pr-4/Ps-4 3PL
WW/RM
ACCESSION NR: AP5005588 S/0190/65/007/002/0224/0225

AUTHOR: Tarakanov, O. G.; Demina, A. I.

TITIE: Effect of surface-active agents in the morphology of polyurethan

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 2, 1965, 224-225

TOPIC TAGS: polyurethan, morphological form, surface active agent

ABSTRACT: A study has been made of the effect of various types of surface-active agents on the development of morphological forms in polyurethans. The experiments were conducted with polyurethan synthesized from hexamethylene disocyanate and ethylene glycol and the following surface-active agents: straight-chain alkyl- and alkylaryl-sulfonates, OP-10, the branched organosilicon compound "Si" (molecular weight, 3000), and the fluorine-containing material "SiF" (molecular weight, 1000). Varicus amounts of surface-active agents were added to 0.2% dimethylformamide-acetone polyurethan solutions. Evaporation of the solvent at 70C yielded more or less developed spherulitic polyurethan structures. Electron microscope study of these structures showed that straight-chain compounds having low surface activity promote ordering of the polymer structure, but substances with high surface activity hinder ordering. The negative effect of surface-active agents on polymer ordering increases with molecular weight and the degree of branching. Orig. art. has: 2 figures. [BO] Cord 1/2

ACCESSION NR: AP5005588

ASSOCIATION: Vladimirskiy institut sinteticheskikh smol (Vladimir Institute of Synthetic Resins)

SUBMITTED: 23Mar64 ENCL: 00 SUB CODE: OC,GC

NO REF SOV: 003 OTHER: 001 ATD PRESS: 3190

	0 4/0-4/0s-4 WW/RM		
54973-65 EWT(m)/EPF(c)/EPR/E	WP(j)/T Pc=4/Pr=4/Ps=4 WW/RM UR/0191/65/000/005/0012/0015 678.664.01:536.49	29	2 1
		8	
AUTHOR: Orlov, V. A.; Tarakano	v, 0. G.	toluvlene	
liisocyanate and ethylene glyco	egradation of polyurethane made from		:
me state alclare messy.	no. 5, 1965, 12-15		<i>;</i>
OUNCE: Flastionesis	adation, polymer thermal degradation	n, toluylene	;;
MPIC TAGS: polyurethane degra 11180cyanate, ethylene glycol	200-2		
APERPACT. The thermal degrada	tion of polyurethane in a vacuum wa tics of gas evolution and weight lo legradation proceeds as follows:	s studied at	
170-270C by measuring the d	legradation proceeds as follows:		
	1 1 00 P-No+COa+OKL	. A	
- start radical may be stab	ilized by adding hydrogen and changi	ng it into an	
amine:	H	. В	
	$R-N+H.\longrightarrow R-NH_s$	andrey a spherous spreadown spherous spreadown planeters special speci	
ard 1/2		•	
			/ .

L 54973-65 ACCESSION NR: AP5012103

In addition, it may react with radical II, forming a secondary amine:

$$\begin{array}{ccc}
H & H \\
R-N & + \cdot R_i \longrightarrow R - N - R_i
\end{array}$$

Ethylene oxide, acetaldehyde, and an unidentified component, probably ethylene, were observed in the gas phase. All these compounds may be products of the transformations of radical II. The above mechanism was confirmed by changes in the molecular weight, its pronounced decrease during thermal degradation indicates that the molecules do not contain reactive isocyanate groups able to enter into cross-linking reactions. The mechanism was also supported by determinations of CO₂ in the gas phase. Orig. art. has: 7 figures and 5 formulas.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: OC, GC

NO REF SOT: 000

OTHER: 010

Cord 2

L 55113-65 EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-li/Pr-li/Pa-li WW/RM ACCESSION NR: AP5015278 UR/0286/65/000/009/0064/0064 678.02:66.095.3:664.049.7 AUTHOR: Petrov, Ye. A.; Tarakanov, O. G.; Fedorov, A. A.; Grinevich, K. P. TITLE: Preparation of foamed polyurethans. Class 39, No. 170648 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 64 TOPIC TAGS: foamed polyurethan, organosilicon liquid ABSTRACT: An Author Certificate has been issued for a preparative method for foamed polyurethans. To improve the mechanical properties of the material and to eliminate expensive and toxic catalysts, <u>CKGh-11</u> and CKGh-12 type organosilicon liquids are used as catalysts and emulsifiers. (BO) ASSOCIATION: Vladimirskiy nauchno-issledovatel'skiy institut sinteticheskikh smol (Vladimir Scientific Research Institute of Synthetic Resins) SUBMITTED: 23Mar64 ENCL: SUB CODE: NO REF SOV: 000 OTHER: ATD PRESS: 000 Card 1/1

""²⁰⁰⁰年初的完全的经验的主义的经验,在15.2000年的第二人称为15.2000年的,15.000年的15

Period Michael State Comment of Designation of the Comment of the

L 32683-66 EWT(m)/T/EWP(j) IJP(c) WW/JWD/RM ACC NRAP6015058 SOURCE CODE: UR/0190/66/008/005/0938/0942 (A)AUTHOR: Vasil'yev, B. V.; Tarakanov, O. G.; Demina, A. I.; Shirobokova, A, I. 14 Scientific Research Institute of Synthetic Resins (Nauchnoissledovatel'skiy institut sinteticheskikh smol) TITLE: Investigation of polyurethane crystallization SOURCE: Vysokomolekulyarnyya soyedineniya, v. 8, no. 5, 1966, 938-942 TOPIC TAGS: polyurethane, crystal lattice, glycol, isocyanate, polymer erystallization, copolymerization, molecular weight ABSTRACT: The crystallization capacity and morphological structural types as a function of the chemical composition of polyurethane has been studied. The crystalline lattice of polyurethane depends on the initial isocyanate and glycol structures. The crystalization capacity of polyurethane drops with an increase in the polyester molecular weight up to 1000. In the case of polymers with a polyester base and molecular weight above 1000, the polyurethane could crystalize. However, in this case the crystalline lattice structure does not depend on the disocyanate structure but only on the polyester structure. The degree of Card 1/2 UDC: 678.01:53+678.664

crystallisation can be changed by copolymerization. Orig. art. has: 7 figures. [NT]										has: [NT]		
SUB	CODE	: 11,	07/	SUBM	DATE:	26May65/	ORIG	REF:	00 9/ 0TH	REF:	005	
		**										1
	·											
	2/2											

ORNOCAREA PROTEIRA PROTEIRA DE SALVE DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANIO DE LA COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANION DEL COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANIO DEL COMPANION DEL COMPANION DEL COMPANION DEL COMPANION DEL COMPANION DEL CO

L 13676-66 FT(n)/I/EN(1) J V(n) F/D/71
ACC NR. AP6017861 SOURCE CODE: UR/0069/66/028/003/0431/0436 32

AUTHOR: Petrov. Ye. A.; Tarakanov. O. G.

ORG: Vladimir Scientific Research Institute of Synthetic Resins (Vladimirskiy nauchno-issledovatel' skiy institut sinteticheskikh smol)

TITLE: Foaming of solutions of <u>surface-active</u> substances in <u>urethane</u> oligomers

SOURCE: Kolloidnyy zhurnal, v. 28, no. 3, 1966, 431-436

TOPIC TAGS: solution property, oligomer, polyurethane, surface active agent

ABSTRACT: Foaming of solutions of surface-active substances in polyurethane oligomers and the mechanism of foam stabilization have been investigated. The solution properties of surface-active foams are stabilized according to the Gibbs—Marangoni mechanism with the formation of volumetric structures. As the forming structures are characterized by a low strength and the foams have a low stability, the Gibbs—Marangoni mechanism is decisive in the stabilization process. The

Card 1/2

UDC: 541.18.05

ACC NR: AP6017861				2
authors thank Acader this work and their v [Based on authors]	aluable instructions.	der and I. N. Vlodav Orig. art. has: 4 i	ts for their interections and 1 table [NT]	•
SUB CODE: 11/ SU	BM DATE: 27Jan65/	ORIG REF: 004/	OTH REF: 003/	•
				`,
		The second of th	NI 14 aphrois	
·				٠
Card 2/2	•	100 mm		

L 08800-67 EWT(m)/EWP(j) IJP(c) RM

ACC NR: AP6030853 (A, N) SOURCE CODE: UR/0191/66/000/009/0045/0047

AUTHOR: Nevskiy, L. V.; Tarakanov, O. G.

34

ORG: none

TITLE: Color formation in polyurethanes as a result of illumination

SOURCE: Plasticheskiye massy, no. 9, 1966, 45-47

TOPIC TAGS: polyurethane, isocyanate resin, polymer physical chemistry, synthetic material, free radical, UV irradiation, UV absorption

ABSTRACT: The factors underlying the yellowish color in polyurethanes based on toluylenediisocyanate when illuminated with UV-light were investigated. The study was conducted on 0.1 mm films prepared from toluenediisocyanate adduct and polyoxypropylenediol in benzene by hardening the condensation product with glycerine on the mercury surface. Steps were taken to exclude moisture from the reaction zone and portions of the sample areas were protected from UV-light. The extent of the color formation in the films was defined optically (in terms of optical density) on a CF-4 spectrophotometer. All samples were illuminated for 50 hrs. It was concluded that oxidation in the UV-illuminated polyurethanes may occur in the absence of oxygen. This type of oxidation in polyurethanes is attributed either to light-induced changes in the aromatic ring of the disocyanate or to a conjugation involving an unpaired electron. The

Card 1/2

HDC: 678 664 01:535 68-31

L 08800-6		3											0
formation of this unpaired electron would result from the cleavage of the N-C bonds the polyurethane chains. Orig. art. has: 2 figures.										in			
SUB CODE:	07,11/	SUBM DATE:	00/	ORIG	REF:	004/	отн	REF:	900				
								•			•		
		•											
		•		, :						•			
		•											
												•	
	•	•		•									
										•	•		
		•											
•													
Card 2/2	•												

TARAKANOV, P.D.

Another gas pipeline to an enterprise of the chemical industry.

Stroi. trub. 9 no.7:2-3 Jl 164. (MIEA 17:11)

1. Turkmenskiy filial Vsesoyuznogo neftegazovogo nauchno-issledo-vatel'skogo instituta, Nebit-Dag.

TILITIM, G.K.; VAYEML', L. Ye.; DANILOY, Y. Y.; GARRIALONOY, (a. Y.; MALALANOY, 1. D.)
Briof nows. Caz. proc. 9 no. 9: 52-56 (G.).

USSR/Geophysics - Earthquakes

THEMEA

FD-2767

Card 1/2

Pub. 45 - 1/13

Author

: Monakhov, F. I.; Tarakanov, R. Z.

Title

: Characteristics of the Kurile-Kamchatka earthquakes according to observations of nearby stations for the years 1952-1954

THE RESIDENCE OF THE PARTY OF T

Periodical

: Izv. AN SSSR, Ser. geofiz., Sep-Oct 1955, 401-415

Abstract

: The authors describe maps of the epicenters of the Kurile-Kamchatka earthquakes for the period 1952-1954 according to observations of the far east network of seismic stations and discuss the plutonic occurrence of centers east of Kamchatka and the Kurile Islands. They conclude that the Kurile-Kamchatka zone is tectonically divided into individual blocks whose seismic activity does not appear at the same time and that in 1952-1954 a considerable release of seismic energy occurred east of the north Kurile Islands and in the southern part of Kamchatka and region of Hokkaido Island. The region of the Kurile-Kamchatka earthquake manifestations is bounded on the Pacific Ocean side of the Kurile Deep-water Depression. The centers of the earthquakes east of Kamchatka and Kurile Islands are mainly at a depth of about 60 kilometers, and the depths of the centers increase in the direction

Card 2/2

Abstract: toward the continent. Seven references: e.g. N. A Linden, "Catalog of deep-focus earthquakes according to data of the network of USSR seismic stations," Trudy Seyamologicheskogo in-ta AN SSSR, No 124, 1947.

Institution: Sakhalin Affiliate, Academy of Sciences USSR

Submitted: December 16, 1954

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754910004-0"

FEDOTOV, S.A.; AVER'YANOVA, V.N.; BAGDASAROVA, A.M.; KUZIN, I.P.; TARAKANOV, R.Z.

Some results of a detailed study on the seismicity of southern Kurile Islands. Izv.AN SSSR.Ser.geofiz. no.5:633-642 My '61. (MIRA 14:4)

 Adademiya mauk SSSR, Institut fiziki Zemli. (Kurile Islands--Seismometry)

CIA-RDP86-00513R001754910004-0 "APPROVED FOR RELEASE: 07/13/2001

5/169/62/000/010/021/071 D223/D307

AUTHOR:

Tarakanov, R.Z.

TITLE:

Some results of studying Far Eastern earthquakes

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 10, 1962, 23, abstract 10Al55 (Tr. Sakhalinsk. kompleksn. n.-i. in-t, no. 10, 1961, 100-111)

The following conclusions are drawn as a result of studying Far Eastern earthquakes in the period 1952-1956. 1. The accuracy of determining most of the epicenters of Far Eastern earthquales from regional station data comprise ± (30-35) km. The areas of possible epicenter positions extend in a direction perpendicular to the Kuriles-Kamchatka arc. 2. The greatest number of epicenters near the Kuriles-Kamchatka arc is confined to the north-west slope of the deep-sea depression. 3. Seismic activity in various parts of the Ruriles-Kamchatka are is not displayed simultaneously. This is probably explained by the arc's block structure. 4. Each different part of the Kuriles-Kamchatka arc has its own prevalent focal Card 1/2