

Bykhovskii, V. K. and Minsker, K. S.
THE ROLE OF ELECTRONIC SURFACE IMPER-
FECTIONS IN HETEROGENEOUS CATALYTIC POLY-
MERIZATION. I. THE POLYMERIZATION OF THE
ALFINE TYPE, tr. by I. Gawronska. Dec 60, 9p.
20 refs. Courtaulds Misc. Lit. 3238; [DSIR LLU]
M. 2950.
Order from OTS or SLA \$1. 10 61-23380

Trans. of Vysokomol [ekulyarnye] Soedineniya (USSR)
1960, v. 2, no. 4, p. 529-534.

DESCRIPTORS: *Polymerization, *Catalysts, Alkyl
radicals, Chlorides, Alcohols, Alkali metals, Ethyl-
enes, Crystals, Electrons, Surfaces, Deformation.

The mechanism of heterogeneous catalytic polymeri-
zation is examined from a novel viewpoint. The active
centers of the catalyst surface are likened to electron
(Chemistry--Organic, TT, v. 6, no. 10) (over)

61-23380

- I. Bykhovskii, V. K.
- II. Minsker, K. S.
- III. Title: Polymerization ...
- IV. Courtaulds ML-3238
- V. DSIR LLU M.2950
- VI. Courtaulds Ltd.
(Gr. Brit.)

57629

Office of Technical Services

61-28143

Minsker, K. S. and Bykhovskii, V. K.
THE ROLE OF ELECTRONIC SURFACE IMPER-
FECTIONS IN HETEROGENEOUS CATALYTIC
POLYMERIZATION. II. SYSTEMS OF THE TYPE OF
ZIEGLER-NATTA CATALYSTS, tr. by L. Gawronska.
2 Mar 61, 7p. 31 refs. Courtaulds Misc. Lit. 3280;
[DSIR LLU] M. 3181.
Order from OTS or SLA \$1.10 61-28143

Trans. of Vysokomol[ekulyarnye] Soedinenia (USSR)
1960, v. 2, no. 4, p. 535-540.

DESCRIPTORS: Catalysts, *Polymerization, Crystals,
Impurities, Color centers, Lattices, Crystal structure,
Alkali metal compounds, Halides, Electrons.

The mechanism of heterogeneous catalytic polymeri-
zation on catalysts of the Ziegler-Natta type was ex-
amined from a novel viewpoint. The catalytic activity of
(Chemistry--Physical, TT, v. 6, no. 11) (over)

- I. Title: Ziegler-Natta catalysts.
- I. Minsker, K. S.
- II. Bykhovskii, V. K.
- III. Title: Systems ...
- IV. Courtaulds ML-3280
- V. DSIR LLU M. 3181
- VI. Courtaulds Ltd. (Gt. Brit.)

196752

Office of Technical Services

61-27557

Wang, Fo-shung, Dolgoplosk, B. A., and
Erusalimskii, B. L.
POLYMERIZATION OF ISOPRENE BY ORGANO-MAG-
NESIUM COMPOUNDS, Tr. by I. Gawronska;
24 Jan 61, 6p. 6 refs. Courtaulds Misc. Lit. 3267;
[DSIR LLU] M. 3083.
Order from OTS or SLA \$1.10 61-27557

Trans. of Vysokomol[ekulyarnye] Soedineniya (USSR)
1960, v. 2, no. 4, p. 541-545.

DESCRIPTORS: *Isoprene, Polymerization, *Magne-
sium compounds, Microstructure, Chemical bonds,
Molecular association, *Metal-organic compounds.

It has been found that organo-magnesium compounds,
free of ether, produce the polymerization of isoprene
at higher temperatures. Polyisoprene formed under
these conditions is constituted mainly of 3, 4 links. The
(Chemistry--Organic, TT, v. 6, no. 10) (over)

- I. Wang, Fo-shung
- II. Dolgoplosk, B. A.
- III. Erusalimskii, B. L.
- IV. Courtaulds ML-3267
- V. DSIR LLU M. 3083
- VI. Courtaulds Ltd. (Gr. Brit.)

61-27557
Office of Technical Services

62-12090

Santo, I. and Gal, K.
GRAFTING OF VARIOUS MONOMERS TO POLY(VI-
NYL ALCOHOL) FILMS UNDER THE ACTION OF
X-RAYS. [1961] 3p.
Order from ATS \$4.00

ATS-92N54R

Trans. of Vysokomolukelyarnye Soedineniya (USSR)
1960, v. 2, no. 4, p. 546-548.

DESCRIPTORS: *Monomolecular films, Vinyl alcohol,
Alcohols, Films, Preparation, X-rays.

(Physics--Molecular, TT, v. 7, no. 4)

- I. Santo, I.
- II. Gal, K.
- III. ATS-92N54R
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Carbon-Chain Polymers and Copolymers,
Part 23. Copolymerization of Diallyl Deriva-
tives of Germanium, Tin, and Silicon With
Styrene and Methyl Methacrylate in the
Presence of Benzoyl Peroxide, by G. S.
Kolesnikov, S. L. Davydova.

RUSSIAN, per, Vysokomolekulyarnyye
Soyed, Vol II, No 4, 1960, pp 567-571.

ATS-31442R
ATS/RJ-2422-40
192, 640

Sci
Vol IV, No 7

63-18380

Kozlov, P. V. and Berestneva, G. L.
EFFECT OF STRETCHING ON THE STRUCTURE
AND PROPERTIES OF POLYETHYLENE TEREPHTHA-
LATE FILMS. I. UNIAXIAL STRETCHING OF FILMS.
[26 Apr 63] [25]p. 13 refs.
Order from OTS or SLA \$2.60 63-18380

Trans. of Vysokomol[ekulyarnye] Soed[ineniya] (USSR)
1960, v. 2, no. 4, p. 591-600.

DESCRIPTORS: *Plastic films, *Polyester plastics,
*Phalates, Ethylenes, Deformation, Mechanical
properties, Tensile properties, Photographic film.

The mechanical properties and structural changes of
polyethyleneterephthalate films subjected to uniaxial
stretching over a broad range of temperature at varying
rates and up to various limits were investigated.
Orientation, relaxation and crystallization processes
taking place in the films being stretched under the
(Materials--Plastics, TT, v. 10, no. 11) (over)

- I. Title: Polyethylene
terephthalate
- I. Kozlov, P. V.
- II. Berestneva, G. L.
- III. Title: Uniaxial ...

Office of Technical Services

A Study of the Mechanism of Ageing in Synthetic
Fibres. 1. A Study of the Thermal and
Thermo-Oxidative Action of Polyamides and Their
Fibres, by N. V. Mikhailov, et al, 4 pp.

RUSSIAN, per, Vysokomol Soedineniya, Vol II,
1950, pp 581-589.

TIL/T5248

NLL 11.4794

188, 945

Sci - Chem

Mar 62

Investigation of Dielectric Losses and
Polarization of Stereoregular IZ Polymethyl
Methacrylate, by G. P. Mikhaylov, T.
I. Borisova, 8 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya,
Vol II, No 4, 1960, pp 619-625.

~~ATS-1543R~~
ATS/RJ-2425

Sci
Vol IV, No 9
Mar 62

187,133

61-12661

Yermolenko, I. N. and Kaputskiy, F. N.
USE OF OXIDES OF NITROGEN FOR THE PREPA-
RATION OF MODIFIED CELLULOSES. (1960) 2p.)
Order from ATS \$2.00 ATS-31N48R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1960, v. 2, no. 4, p. 626.

148,642

1. Cellulose--Processing
2. Nitrogen oxides--Chemical reactions

- I. Yermolenko, I. N.
- II. Kaputskiy, F. N.
- III. ATS-31N48R
- IV. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3106

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 7)

Heterochain Polyamides. XXIII. Interfacial
Polycondensation of BIS (p-carboxyphenyl)
Phenylphosphine Oxide Dichloride With Hexa-
methylenediamine, by V. V. Korshak, et al.

RUSSIAN, par, Vysokomolekulyaraye Soedineniya,
Vol II, 1960, pp 633-635.

Sci - Chem

Feb 61

ATS 25143R

ATS/RT-2432

138,279

Studies in the Field of Coordination Polymers,
IV. Preparation of Polymers Based on
Aromatic BIS (b-Diketones) With Metals,
by V. V. Korshak, Ye. S. Krongauz, V. Ye.
Sheyna, 10 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyed,
Vol II, No 5, 1960, pp 662-672.

ATS-13143R
ATS/RJ-2463

Sci
Vol IV, No 7
Apr 62

192642

Heterochain Polyamides. XXIV. Preparation of
Mixed Polyamides at the Phase Interface, by V. V.
Korshak, et al.

RUSSIAN, per, Vysokomolekulyarnye Soedineniya,
Vol II, 1960, pp 673-678.

ATB 87143R

ATS/RJ-2431

138, 277

Sci - Chem

Feb 61

Phosphorus-Containing Polymers. Part 2. An Application of the Arbuzov Reaction to the Synthesis of the Polyphosphonates, by K. A. Petrov, et al.

RUSSIAN, per, *Vysokomolekulyarnye Soedineniya*, 2X Vol II, 1960, pp 685-688.

ATS 3243R

ATS/RJ-2438

138, 281

Sci - Chem

Feb 61

Berlin, A. A., Llogon'kiy, B. I., and Parini, V. P.
DERIVATION AND PROPERTIES OF SOME AROMA-
TIC POLYMERS. 31 Oct 60, 2p. AID rept. 60-76.
Order from LC or SLA mi\$1.80, ph\$1.80 61-15025

Abstract trans. of *Vysokomolekulyarnyye Soyedineniya*
(USSR) 1960, v. 2, no. 5, p. 689-697.
A complete translation is available from ATS, \$15.50,
as ATS-00M43R, (60-22941 [1960] 9p.

A linear polyphenylene polymer was synthesized by the
decomposition of bis-diazotized aromatic amines
(benzidine or benzidine-3, 3'-dicarboxylic acid) in con-
tact with Cu^+ ions. Analysis of the polymers obtained
indicated the presence of -N=N- groups and chlorine
in the structure.

(Chemistry--Organic, TT, v. 5, no. 4)

61-15025

1. Cyclic compounds--
Polymerization
2. Polymers--Synthesis
- I. Berlin, A. A.
- II. Llogon'kiy, B. I.
- III. Parini, V. P.
- IV. AID-60-76
- V. Air Information Div.,
Washington, D. C.
- VI. AD-246-766

143,316
ATS/RJ-2464

Office of Technical Services

Preparation of High Molecular Aromatic Polyamides
by Interfacial Polycondensation in Acid Media,
by L. B. Sokolov, et al.

RUSSIAN, per, Vysokomolekulyarne Soyedineniya, Vol II, 19
1960, pp 698-703.

WMA
*00C
per memo 26 Jan 61

Sci - Chem

ATS 17M43R

Feb 61

ATS/RJ-2427

Some Rules in Interfacial Copolycondensation,
by L. B. Sokolov, T. L. Kruglova, 7 pp.

RUSSIAN, per, Vysokomolekulyarnyye
Soyed, Vol II, No 5, 1960, pp 704-709.

ATS-2443R

ATS/RJ-2435

Sci
Vol IV, No 7
Apr 62

192,655

Effect of the Solvent Capacity of the Organic
Phase in the Interfacial Preparation of
Polyamides, by L. B. Sokolov, et al.

RUSSIAN, per, *Vysokomolekulyarnye Soedineniya*,
Vol II, 1960, pp 710-715.

Sci - Chem

ATS 1843R

ATS/RT-2428

138, 272

Polymerisation of Dialdehydes, by Yu. V.
Mitin, Yu. N. Saganov, 3 pp.

RUSSIAN, par, Vysokomolekulyarnyye
Soedineniya, Vol II, No 5, 1960,
pp 716-718.

ATS-RJ-2684
ATS-4344R

Sci
Vol IV, No 11
Jun 62

199, 239

Uakov, I. A. and Kusnitsyna, T. A.
THE EFFECT OF DISPERSING AMINATED BEN-
TONITE IN THE MONOMER ON REINFORCEMENT
OF POLY(METHYL METHACRYLATE). Pt. 2 of
Filled Polymers. [1961] 3p.
Order from ATS \$7.00

ATS-68P58R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2, no. 5, p. 728-730.
An abstract trans. is available from L.C. or SLA mi \$1.80,
ph \$1.80 in 61-13988, AID-60-80, 7 Nov 60, 2p.

DESCRIPTORS: *Plastics, *Bentonite, *Acrylic resins,
Methyl radicals, Polymers, Binders.

(Materials--Plastics, TT, v. 7, no. 9)

62-12669

- I. Uakov, I. A.
- II. Kusnitsyna, T. A.
- III. Title: Filled...
- IV. ATS-68P58R
- V. Associated Technical Services
Inc., East Orange, N. J.

ATS-RS-3612

Office of Technical Services

<p>IMPROVING THE MECHANICAL AND THERMOMECHANICAL PROPERTIES OF PLASTICS BY USING ACTIVE BENTONITE FILLERS. 7 Nov 60, 2p. AID rept. 60-80; AD-246 709. Order from LC or SLA mi\$1.80, ph\$1.80 61-13988</p> <p>Abstract trans. of <u>Vysokomolekulyarnyye Soedineniya</u> (USSR) 1960, v. 2, no. 5, p. 728-730 and no. 6, p. 926-930.</p> <p>Contents: Filled Polymers. II. Effect of the Dispersion of Aminated Bentonite in a Monomer Medium on the Improvement of Polymethyl Methacrylate, by I. A. Uskov and T. A. Kusnitsyna III. Polymerization of Methyl Methacrylate with Dispersed Sodium Bentonite, by I. A. Uskov.</p> <p>(Materials--Plastics, TT, v. 5, no. 4)</p>	<p>61-13988</p> <p>1. Plastics--Mechanical properties 2. Bentonite--Applications I. AID-60-80 II. Air Information Div., Washington, D. C. III. AD-246 709</p> <p>143,342</p> <p>Office of Technical Services</p>
---	--

Kargin, V. A., Kabanov, V. A., and Zubov, V. P.
THE FORMATION OF ISOTACTIC POLYMETHYL-
METHACRYLATE DURING PHOTOPOLYMERIZATION
IN THE SYSTEM: METHYL METHACRYLATE-ZINC
CHLORIDE. [1961] [7]p. 8 refs.
Order from OTS or SLA \$1.10

62-13837

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2 [no. 5] p. 756-769.

DESCRIPTORS: *Methyl radicals, *Polymers, *Zinc
compounds, *Chlorides, Phase transitions, Micro-
structure, Molecular structure, Polymerization.

It has been shown that an isotactic polymer is pro-
duced in the radical-induced polymerization of methyl
methacrylate at room temperature in the presence of
zinc chloride dissolved in the monomer. The effect of
the conformation of the reactant molecules in the
transitional state on formation of the microstructure
(Chemistry--Organic, TT, y. 7, no. 10) (over)

62-13837

I. Kargin, V. A.
II. Kabanov, V. A.
III. Zubov, V. P.
IV. Translations, New York

Office of Technical Services

Kozlov, P. V., Makaruk, L. and others
THE EFFECT OF MOLECULAR WEIGHT ON THE
TRANSITION TEMPERATURES OF THE POLYCAR-
BONATES. Pt. 1. of Investigations in the Field of Poly-
carbonates. [1960] 9p.
Order from ATS \$11.95

ATS-43M46R

Trans. of *Vysokomolekulyarnyye Soyedineniya (USSR)*
1960, v. 2, no. 3, p. 770-777.

147,024

(Physics--Molecular, TT, v. 5, no. 5)

61-12371

1. Polymers--Transition temperature
2. Carbonates--Transition temperature
3. Carbonates--Molecular weight
4. Molecular weight--Chemical effects

- I. Kozlov, P. V.
- II. Makaruk, L.
- III. Title: Investigations...
- IV. ATS-43M46R
- V. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-2686

Office of Technical Services

Andrianov, K. A., Bochkareva, G. P. and others.
POLYANHYDRIDES FROM PHTHALIC ACIDS AND
MIXED PHTHALICADIPIC ACIDS. [1962] 5p.
Order from ATS \$6.25 ATS-41P60R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2, no. 5, p. 793-796.

DESCRIPTORS: *Anhydrides, Hydrides, Polymers,
Synthesis, *Phthalic acids, acids, *Adipic acids,
Chemical reactions.

(Chemistry--Organic, TT, v. 8, no. 2)

62-17301

- I. Andrianov, K. A.
- II. Bochkareva, G. P.
- III. ATS-41P60R
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS-RS-3616

Office of Technical Services

61-10571

Volkova, A. I., Koton, M. M., and Savitskaya, M. N.
THE INFLUENCE OF THE CHEMICAL STRUCTURE
OF SOME UNSATURATED ESTERS ON THEIR POLY-
MERIZING ABILITY. [1960] 5p. (3 figs. omitted)
3 refs.

Order from LC or SLA ml\$1.80, ph\$1.80 61-10571

Trans. of *Vysokomolekulyarnyye Soyedineniya* (USSR)
1960, v. 2 [no. 5] p. 802-805.

Experiments showed that esters of acrylic acid are
polymerized at a higher rate than isomeric to them
vinyl esters. The introduction into the alkyl group of
an unsaturated ester of chlorine atom, and the length-
ening of alkyl radical slows down the polymerization
process.

(Chemistry--Organic, TT, v. 5, no. 7)

1. Acrylic acid esters--
Polymerization
2. Vinyl compounds--
Polymerization
3. Molecular structure--
Chemical effects

- I. Volkova, A. I.
- II. Koton, M. M.
- III. Savitskaya, M. N.

148,542

Office of Technical Services

18

(NY ~~4486~~ 4486)

First All-Union Conference on Nucleic Acids and Nucleoproteins, by V. S. Tongur, P. I. Tseymlin.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol II, No 5, 1960, pp 817-822.

*JPRS

Sci/Biol/Chem

28 Jun 60

61-12693

Korshak, V. V., Frunze, T. M., and Kozlov, L. V.
HETEROCHAIN POLYAMIDES. XXV. INTERFACIAL
PREPARATION OF POLYAMIDES CONTAINING
PIPERAZINE RESIDUES. [1960] 8p.
Order from ATS \$12.45

ATS-93N47R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1960, v. 2, no. 6, p. 838-844.

148,672

- I. Amides--Polymerization
- I. Korshak, V. V.
- II. Frunze, T. M.
- III. Kozlov, L. V.
- IV. Title: Interfacial...
- V. ATF-93N47R
- VI. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-2675

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 7)

61-12689

Korshak, V. V., Frunze, T. M., and Kozlov, L. V.
HETEROCHAIN POLYAMIDES. XXVL MIXED POLY-
AMIDES FROM PIPERAZINE AND ALIPHATIC AND
AROMATIC DICARBOXYLIC ACIDS. [1960] 6p.
Order from ATS \$8.55 ATS-94N47R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1960, v. 2, no. 6, p. 845-850.

148,668

1. Amides--Polymerization
2. Carboxylic acids--
Polymerization
- I. Korshak, V. V.
- II. Frunze, T. M.
- III. Kozlov, L. V.
- IV. Title: Mixed...
- V. ATS-94N47R
- VI. Associated Technical
Services, Inc., East
Orange, N. J.

ATS-RJ-2676

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 7)

Synthesis and Investigation of Unsaturated
Polyamides, by O. Ya. Fedotova, E. P.
Bryzina, 4 pp.

RUSSIAN, par, Vysokomolekulyarnyye
Sozdaniya, Vol II, No 6, 1960,
pp 875-878.

ATS-4084R

ATS-RJ-2669

Sci
Vol IV, No 11
Jan 62

199,237

Synthesis and Investigation of High-Molecular-
Weight Tertiary Amines and Quaternary Ammonium
Compounds From Copolymers of 2-Methyl-5-
Vinylpyridine and Various Cross-Linking Agents,
9 pp. 9671176

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya,
Vol II, No 6, 1960, pp 884-890.

FID MCL-974/1

Sci - Chem

171,549

20 Oct 61

Synthesis and Investigation of Aromatic
Polyamides, by O. Ya. Fedotova, I. P.
Losev, et al.

RUSSIAN, par, Vysokomolekulyarnyye Soyed,
Vol II, No 6, 1960, pp 899-903.

REFRATS-41M4R

ATS-RJ-2670
199, 236

Sci
Vol IV, No 11
Jun 62

63-16596

Uskov, I. A.
FILLED POLYMERS. III. POLYMERIZATION OF
METHYLMETHACRYLATE WITH THE DISPERSION
OF SODIUM BENTONITE. [1963] [10]p. 9 refs.
Order from OTS or SLA \$1.10 63-16596

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2, no. 6, p. 926-930.
An abstract trans. is available from LC or SLA.
mi\$1.80, ph\$1.80 in 61-13988, AID-60-80, 7 Nov 60, 2p.

DESCRIPTORS: *Methyl radicals, *Acrylic resins,
*Sodium compounds, *Bentonite, Graft polymers,
Polymerization, Fillers.

At the vibration disintegration of air-dry sodium
bentonite blocks in a methylmethacrylate medium,
this monomer is polymerized and polymethylmetha-
crylate is grafted onto the dispersed bentonite particles.
(Materials--Plastics, TT, v. 10, no. 8) (over)

I. Title: Methyl methacrylate
I. Uskov, I. A.

II. Title: Polymerization ...

Office of Technical Services

Electron-Microscope Investigation of the
Structure of Polycarbonates, by L. Makaruk,
P. V. Kozlov, 8 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyed,
Vol II, No 6, 1960, pp ~~931-936~~.

ATS-4244R

ATS-RJ-2687

197,944

Sci
Vol IV, No 1
May 62

(DC-5505).

A. V. Dumanskiy: 80th Birthday, *3pp*

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya,
Vol II, No 6, 1960, pp 960-961.

*JPRS 8263

Misc
Sci - Biographical

7 Mar 61

A Study of Some Relationships in Interfacial
Polyesterification, by V. V. Korshak, S. V.
Vinogradov, A. S. Lebedeva, 7 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya,
Vol II, No 7, 1960, pp 977-983.

ATS-05M45R

ATS-RJ-2677

Sci

203, 216

Jun 62

POLYMER SCIENCE USSR, 1962, VOL. 3, NO. 2,
P. 211-366. Aug 62, 1v.
Order from PP \$100.00/year

Trans. of Vysokomol'kul'yarnye Soedineniya (USSR) 1960,
v. 2, no. 7, p. 989-993, 1026-1030, 1039-1048, 1082-1092,
1103-1108, 1122; no. 8, p. 1157-1161, 1167-1170,
1176-1187, 1193-1195, 1213-1220, 1280-1282, 1287;
no. 9, p. 1297-1300, 1309-1319, 1360-1369, 1375-1382,
1391-1397, 1426-1431. Abstracts are included of
selected articles from v. 3, no. 12 and v. 4, no. 1.

DESCRIPTORS: *Polymers, Chemistry, *Amides,
Condensation reactions, *Ethylenes, Reaction kinetics,
Electrical conductance, *Acrylic resins, *Benzenes,
*Isoprenes, Polymerization, Copolymerization, *Radia-
tion chemistry, *Phenyl radicals, *Acetylenes, *Acryloni-
triles, *Propenes, *Phenol-formaldehyde resins, Anisot-
ropy, Degradation, *Styrenes, *Electron microscopy,
(Chemistry--Organic, TT, v. 10, no. 4) (over)

63-17527-2

I. Pergamon Press, Inc.,
New York

Office of Technical Services

Tszen, Khan-min and Kolesnikov, G. S.
CARBON-CHAIN POLYMERS AND COPOLYMERS.
XXV. THE ACTION OF CHLORIDES OF UNSATURATED ACIDS ON POLYVINYL ALCOHOL. [1960]
6p. (refs. 4 figs. omitted).
Order from LC or SLA mi\$1. 80, ph\$1. 80 61-10703

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2 [no. 7] p. 1010-1012.

Properties of polyvinyl alcohol can be changed by its treatment with chlorides of unsaturated acids. (See also 61-12764)

(Chemistry--Organic, TT, v. 5, no. 11)

61-10703

1. Polymers--Synthesis
2. Copolymerization--Analysis
3. Vinyl alcohol--Polymerization
4. Chlorides--Chemical reactions

- I. Tszen, Khan-min
- II. Kolesnikov, G. S.
- III. Title: Action...

158915

Office of Technical Services

Some Properties of Aromatic and Arylaliphatic
polyamides Prepared by Interfacial Poly-
condensation. Part I., by O. Ya. Fedotova,
M. I. Kerbar, I. P. Losev, 6 pp.

RUSSIAN, *Pr*, *Vysokomolekulyarnyye Soyedineniya*,
Vol II, No 7, 1960, pp 1020-1025.

ATS-0745R
ATS-KJ-2672
203,219

Sci

Jun 62

Kinetic Study of Interfacial Polycondensation by
Electrical Conductivity Measurements, by Ye. Z.
Faynberg, N. V. Mikhaylov, 5 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya,
Vol II, No 7, 1960, pp 1039-1044.

ATS-0845R

ATS-RJ-2673

203,218

Sci

Jun 62

Tsvetkov, V. N., Skazka, V. S., and Krivoruchko, N. [Ya].

RELATION BETWEEN THE MOLECULAR WEIGHT AND INTRINSIC VISCOSITY OF STEREOREGULAR POLYMETHYL METHACRYLATE FRACTIONS IN BENZENE. [1961] [6] p. 8 refs.
Order from OTS or SLA \$1.10

62-13836

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2 [no. 7] p. 1045-1048.

DESCRIPTORS: *Benzenes, *Polymers, Methyl radicals, Methanes, Acrylic resins, Molecular weight, Viscosity, Stereochemistry.

A study was made of the scattering of light by various fractions of isotactic and syndiotactic PMMA in acetone and ethyl acetate, and the intrinsic viscosities of these fractions in benzene have been determined. It has been shown that the variation of the intrinsic viscosity of the (Chemistry--Organic, TT, v. 8, no. 2) (over)

62-13836

- I. Title: Stereoregular polymers
- I. Tsvetkov, V. N.
- II. Skazka, V. S.
- III. Krivoruchko, N. Ya.
- IV. Translations, New York

Office of Technical Services

<p>Yeskin, V. Ye. ASYMMETRY OF CRITICAL OPALESCENCE IN SOLUTION OF POLYSTYRENE IN CYCLOHEXANE, tr. by Carl Demrick. [1960] 9p. (equations 3 figs. 1 table omitted) 13 refs. Order from OTS or SLA \$1.10</p>	<p>61-15283</p>
<p>Trans. of <i>Vysokomolekulyarnyye Soyedineniya</i> (USSR) 1960, v. 2, no. 7, p. 1049-1055.</p>	<p>I. Yeskin, V. Ye.</p>
<p>DESCRIPTORS: *Polymer solutions, Styrenes, Polymers, Cyclohexanes, Optics.</p>	<p>161780</p>
<p>(Chemistry--Physical, TT, v. 6, no. 1)</p>	<p>Office of Technical Services</p>

Kallistov, O. V. and Korneeva, E. V.
A STUDY OF THE FLOW BIREFRINGENCE OF
ISOTACTIC POLYSTYRENE FILMS. [1961] [8]p.
7 refs.

Order from OTS or SLA \$1. 10

62-13835

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2 [no. 7] p. 1056-1062.

DESCRIPTORS: *Films, *Styrenes, *Polymers,
Elasticity, Crystallization, Temperature, Photo-
elasticity, *Refractive index, Optics.

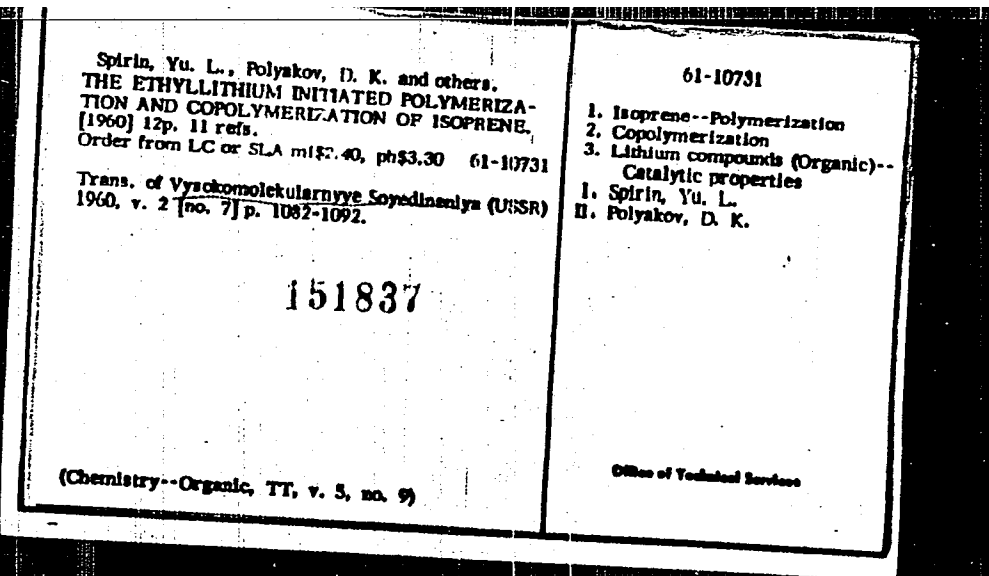
Flow birefringence and the photoelastic effect have
been found to vary with temperature in films of
stereoregular (isotactic) polystyrene in the highly
elastic state, due to the appearance of the initial
phase of crystallization. The photoelastic constant
has been found to vary with temperature in amor-
(Physics--Solid State, TT, v. 7, no. 11) (over)

62-13835

- I. Kallistov, O. V.
- II. Korneeva, E. V.
- III. Translations, New York

Office of Technical Services

<p>Arbuzova, I. A. and Sultanov, K. POLYMERIZATION OF DIVINYL ACETALS. [1960] 5p. Order from ATS \$8.50 Trans of <u>Vysokomolekulyarnyye Soyedineniya</u> (USSR) 1960, v. 2, no. 7, p. 1077-1081.</p>	<p>61-12687 I. Acetals--Polymerization I. Arbuzova, I. A. II. Sultanov, K. III. ATS-28M47R IV. Associated Technical Services, Inc., East Orange, N. J.</p>
<p>148,666</p>	<p>ATS-RJ-2685</p>
<p>(Chemistry--Organic, TT, v. 5, no. 7)</p>	<p>Office of Technical Services</p>



Synthesis of Unsaturated Polyamides and
Polyesters by Polycondensation at the Phase
Interface, by G. S. Kolesnikov, A. S.
Maloshitskiy, 3 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya,
Vol II, No 7, 1960, pp 1119-1121.

ATS-06M45R ATS - RJ - 2674

Sci

203,214

Jun 62

Frisman, E. V., Martsinovskii, A. M., and
Domnicheva, N. A.
OPTICAL ANISOTROPY OF MACROMOLECULES OF
POLYSTYRENE DERIVATIVES. [1961] [9]p. 22 refs.
Order from OTS or SLA \$1.10 62-13334

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2, p. 1148-1153.

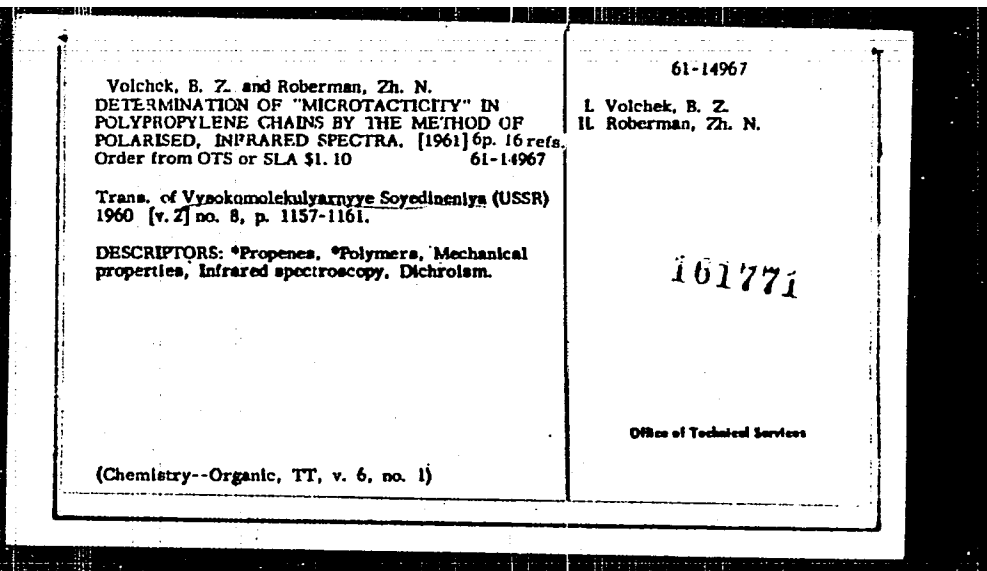
DESCRIPTORS: *Styrenes, *Polymers, *Optics,
Polarization, Molecular rotation.

The segmental anisotropy of polystyrene derivatives
was measured by the method of flow birefringence.
Analysis of the experimental data indicates that the
nature of rotation of the side groups may be considered
to be the same in molecules of poly-p-chlorostyrene,
poly-2,5-dimethylstyrene, and polystyrene. This as-
sumption does not satisfy the experimental findings for
poly-2,5-dichlorostyrene. In this case the extent to
(Physics--Molecular, TT, v. 8, no. 8) (over)

62-13834

- I. Frisman, E. V.
- II. Martsinovskii, A. M.
- III. Domnicheva, N. A.
- IV. Translations, New York

Office of Technical Services



Korshak, V. V., Vinogradova, S. V., and
Lebedeva, A. S.
HETERO-CHAIN POLYESTERS. PT. 28. A STUDY
OF SOME RELATIONSHIPS GOVERNING INTER-
FACIAL POLYESTERIFICATION. [1960] 5p.
Order from ATS \$7.75 ATS-86M45R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1960, v. 2, no. 8, p. 1162-1166.

141, 160

(Chemistry--Organic, TT, v. 5, no. 2)

61-12091

1. Esters--Polymerization
2. Title: Polyesterification
- I. Korshak, V. V.
- II. Vinogradova, S. V.
- III. Lebedeva, A. S.
- IV. Title: Study...
- V. ATS-86M45R
- VI. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS-RJ-2678

Office of Technical Services

Shantarovich, P. S. and Shlyapnikova, I. A.
POLYMERIZATION OF CYCLOHEXADIENE. [1961]
[7]p. 3 refs.
Order from OTS or SLA \$1.10 62-13767

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2, no. 8, p. 1171-1175.

DESCRIPTORS: *Cyclohexadienes, Polymerization,
Heat of reaction, Peroxides, Reaction Kinetics.

The polymerization of cyclohexadiene is described for the case when the reaction is initiated by heat and by peroxide. It was established that in thermal initiation the original centers of polymerization are produced as the result of a bimolecular reaction involving the formation of a diradical. The reaction has an extremely low frequency factor. The diradical center vanishes during the autosaturation and cyclization reaction (provided there are no steric hindrances (Chemistry--Organic, TT, v. 7, no. 11) (over)

62-13767

I. Shantarovich, P. S.
II. Shlyapnikova, I. A.
III. Translations, New York

Office of Technical Services

61-12762

Tsvetkov, V. N. and Boytsova, N. N.
STEREOREGULARITY AND OPTICAL ANISOTROPY
IN POLY(METHYL METHACRYLATE) MOLECULES.
[1960] 12p.
Order from ATS \$17. 70 ATS-18N48R

Trans. of Vyssokomolekulyarnyye Soyedineniya (USSR)
1960, v. 2, no. 8, p. 1176-1187.

151522

1. Methyl acrylate--
Molecular structure
 2. Methyl acrylate--
Optical properties
 3. Stereochemistry
- I. Tsvetkov, V. N.
 - II. Boytsova, N. N.
 - III. ATS-18N48R
 - IV. Associated Technical
Services, Inc., East
Orange, N. J.

ATS/RJ-3017

Office of Technical Services

(Chemistry--Organic, TT, v. 3, no. 8)

CEA-tr-R-1388 Uncl.

INTERACTION DU SOUFRE ET DU CAOUTCHOUC NATUREL
SOUS L'ACTION DE RAYONNEMENTS IONISANTS.(Interaction of Sulfur and Natural Rubber
Under the Action of Ionizing Radiations).

Z. N. Tarasova, M. Ya. (Ia.) Kaplunov, V. T.

Kozlov, N. A. Klauzen, and B. A. Dogadkin.

Translated into French from Vysokomolekulyarnye
Soedineniya, 2: 1201-6(1960): 18p.Chemistry; Radiation Effects;
Translations MC-40C-40 NP NSA Dep.(mc); \$1.60(fs), \$0.80(mf)
N-8 JCL o TS

62-13833

Zabolotskaya, E. V., Gantmakher, A. R., and
Medvedev, S. S.
POLYMERIZATION OF STYRENE BY THE ACTION
OF COMPLEX CATALYSTS. [1961] [12]p. 15 refs.
Order from OTS or SLA \$1.60 62-13833

I. Zabolotskaya, E. V.
II. Gantmakher, A. R.
III. Medvedev, S. S.
IV. Translations, New York

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2 [no. 8] p. 1213-1220.

DESCRIPTORS: *Styrenes, *Polymerization, Catalysts,
Titanium compounds, Chlorides, Aluminum com-
pounds, Alkyl radicals, Benzenes, Polymers.

A study was made of the kinetics of styrene polymer-
ization by the action of titanium trichloride and an alkyl
aluminum in benzene. The rate of polymerization is
proportional to the concentrations of the monomer and
the titanium trichloride. The activation energy of the
styrene polymerization process is 11 Kcal/mol. The
(Chemistry--Organic, TT, v. 7, no. 11) (over)

Office of Technical Services

The Role of Oxygen in the Polymerization of Vinyl-
idene Chloride, by G. A. Razuvayev, K. S. Minsker,
15 pp.

RUSSIAN, per, Vysok Soedineniya, Vol II, No 8,
1960, pp 1239-1245.

K-H 10610 a

Sci-Chem
April 64

61-12078

Fedotova, O. Ya. and Mao, Bin-tsyuan.
SYNTHESIS AND STUDY OF POLYAMIDOUREAS.
[1960] 7p.
Order from ATS \$10.15 ATS-87M45R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1960, v. 2, no. 8, p. 1255-1260.

- 1. Urea derivatives--Synthesis
- 2. Amide polymers--Synthesis
- I. Fedotova, O. Ya.
- II. Mao, B.
- III. ATS-87M45R
- IV. Associated Technical Services, Inc.
East Orange, N. J.

ATS-RJ-2679

141, 150

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 2)

Kolesnikov, G. S., Suprun, A. P. and others.
CARBOCHAIN POLYMERS AND COPOLYMERS. XXVI
POLYMERIZATION AND COPOLYMERIZATION OF
1,1,2-TRICHLOROBUTADIENE-1,3. [1961] 4p.
(3 figs. omitted) 1 ref.
Order from OTS or SLA \$1.10

61-20641

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2 [no. 8] p. 1266-1269.

DESCRIPTORS: *Chloroprenes, *Polymers, Poly-
merization, Copolymerization.

Polymers of 1,1,2-trichlorobutadiene-1,3 were ob-
tained and the dependence of thermomechanical prop-
erties on molecular weight was determined. Copoly-
mers of 1,1,2-trichlorobutadiene-1,3 with styrene and
methylmethacrylate were studied and the dependence of
thermomechanical properties of the copolymers on
(Chemistry--Organic, TT, v. 7, no. 7) (over)

61-20641

- I. Kolesnikov, G. S.
- II. Suprun, A. P.
- III. Title: Polymerization...

Office of Technical Services

Kargin, V. A., Bakeyev, N. F. and others.
ELECTRON-MICROSCOPIC STUDY OF CRYSTAL
STRUCTURES OF POLYSTYRENE AND POLYPRO-
PYLENE. [1961] 4p.
Order from ATS \$5.25 ATS-17N48R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR).
1960, v. 2, no. 8, p. 1279-1282.

158855

(Chemistry--Organic, TT, v. 5, no. 10)

61-22016

1. Styrene polymers--
Crystal structure
2. Propene polymers--
Crystal structure
3. Electron microscopy--
Applications

- I. Kargin, V. A.
- II. Bakeyev, N. F.
- III. ATS-17N48R
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

ATS-RJ-3056

Office of Technical Services

Spasskiy, S. S., Mat'kova, M. Ye., and Tokarev,
A. V.
COPOLYMERIZATION OF UNSATURATED ESTERS
WITH VINYL MONOMERS. VI. THERMOMECHANICAL
STUDY OF COPOLYMERS OF UNSATURATED
POLY ESTERS AND VINYL MONOMERS. [1961] 8p.
6 refs.
Order from LC or SLA m\$1.80, ph\$1.80 61-10985

Trans. of Vysokomolekulyarnye Soyedineniya (USSR)
1960, v. 2 [no. 9] p. 1297-1300.

(Chemistry--Organic, TT, v. 5, no. 12)

61-10985

1. Copolymerization
2. Esters--Polymerization
3. Vinyl compounds--
Polymerization
- I. Spasskiy, S. S.
- II. Mat'kova, M. Ye.
- III. Tokarev, A. V.
- IV. Title: Thermomechanical.

148753

Office of Technical Services

Dynamic Properties of Viscoelastic Materials During
Anharmonic Loading, by L. S. Priss.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya,
No 9, 1960, pp 1309-1319. 9662614

*ATIC MCL 820/1

Sci - Chem

2 Feb 61

61-10984

Spassky, S. S. and Molchanova, T. V.
COPOLYMERIZATION OF UNSATURATED POLY-
ESTERS WITH VINYL MONOMERS. X. THERMO-
MECHANICAL STUDY OF COPOLYMERS OF THREE-
COMPONENT SYSTEMS. [1961] 8p. [3 graphs omitted]
12 refs.

Order from OTS or SLA \$1.10

61-10984

Trans. of *Vysokomolekulyarnyye Soyedineniya* (USSR)
1960. v. 2 [no. 9] p. 1320-1323.

DESCRIPTORS: *Copolymerization, Polymers, *Esters,
*Vinyl radicals, *Ethylenes, Glycols, Styrenes,
Acetates, Methyl radicals, Fumaric acids, Adipic
acids.

I. Spassky, S. S.
II. Molchanova, T. V.
III. Title: Thermomechanical...

105550

Office of Technical Services

(Chemistry--Organic, TT, v. 6, no. 2)

Investigation of the Strength Characteristics
of Polymers at High Deformation Rates, by
V. B. Gul'.

RUSSIAN, per, Vysokomolekulyarnye Soyed,
Vol II, No 11, 1960, pp 1616-1619.

ALL/RTS 1961

Sci - Chem

ATS
193,836

Apr 62

Menchik, Z.
SOME COMMENTS ON THE CRYSTAL STRUCTURE
OF POLYACRYLONITRILE. [1961] [5]p. 6 refs.
Order from OTS or SLA \$1.10 62-13768

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2 [no. 11] p. 1635-1638.

DESCRIPTORS: *Acrylonitriles, Polymers, *Crystal
structure, Diffraction, Density.

According to the literature polyacrylonitrile is said to
have unit cells of hexagonal structure. It has been es-
tablished that a hexagonal unit cell must be rejected
for several reasons. Owing to the poorly defined dif-
fraction pattern (all the equatorial reflections are ex-
tremely weak, except for two, with blurred diffraction
spots on the other layer lines), the unit diffraction cell
cannot be described with certainty. The observed par-
(Chemistry--Organic, TT, v. 7, no. 10) (over)

62-13768

I. Menchik, Z.
II. Translations, New York

ATS

Office of Technical Services

Preparation and Polymerization of Unsaturated Compounds
Containing Metals, by M. M. Koton, T. M. Kaseleva,
F. S. Florinskiy, 8 pp.

RUSSIAN, per, Vysokomolekulyarnye Soyedineniya, Vol II,
No 11, 1960, pp 1639-1644.

NLL 1114770

CIA/FDD XX-1049

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem

ATS

166,452

Sep 61

OTS 6, -20056

USIB INTERNAL USE ONLY

62-13838

Lanovskaya, L. M., Gantmakher, A. R., and Medvedev, S. S.
POLYMERIZATION OF ETHYLENE WITH THE COMPLEX CATALYST λ -TiCl₃-AlR₃ IN THE PRESENCE OF VARIOUS MONOMERS. II. SOME ASPECTS OF THE MECHANISM OF POLYMERIZATION IN THE PRESENCE OF COMPLEX CATALYSTS. [1961]
[5]p. 14 refs.
Order from OTS or SLA \$1.10

62-13838

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2 [no. 11] p. 1655-1658.

DESCRIPTORS: *Ethylenes, *Polymerization, *Catalysts, Butadienes, Isoprenes, Styrenes, *Titanium compounds, Chlorides, *Aluminum compounds.

(Chemistry--Organic, TT, v. 7, no. 11) (over)

I. Lanovskaya, L. M.
II. Gantmakher, A. R.
III. Medvedev, S. S.
IV. Title: Some ...
V. Translations, New York

ATS

Office of Technical Services

61-12758

Losev, I. P., Smirnova, O. V. and others.
INVESTIGATION OF INTERFACIAL POLYESTERIFI-
CATION. [1960] 6p.
Order from ATS \$9.60

ATS-35N48R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1960, v. 2, no. 11, p. 1639-1664.

151519

1. Esters--Polymerization
2. Title: Polyesterification
- I. Losev, I. P.
- II. Smirnova, O. V.
- III. ATS-35N48R
- IV. Associated Technical Services, Inc., East Orange, N. J.

ATS/RJ-3009

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 8)

R-771-N

Adhesion of Polymers, VII Adhesion of
Carboxyl-Containing Copolymers to Various Substitutes,
by S. S. Voyutskiy, et al.

RUSSIAN, per, Vysekemolekularnye Soyedineniya,
Vol II, No 11, 1960, pp 1671-1577.

*JPRS for Picatinny Arsenal

Sci - Phys

ATS

13 Oct 61

Internal Stresses in Coatings. II. Methods of Calculating Internal Stresses in Polymer and Paint and Varnish Coatings, by A. T. Sanzhuravskii, 12 pp.

RUSSIAN, per, ~~Vysok. Sped.~~ Vol II, No 11, 1960, pp 1698-1702. 9210747

ABC-NP-Tr-1017

ATS

Sci - Mat & Met 1698-1702. ALL M. 10025

Aug 63

341,352

Internal Stresses in Coatings, II, Experimental
Methods of Studying Internal Stresses in Polymer
and Paint and Varnish Coatings, by A. F.
Sanzharovskiy, G. I. Epifanov, 17 pp.

RUSSIAN, per, Vysokomolekulyarnye Soedineniya,
Vol. II, No 11, 1960, pp 1705-1716.

EL M 10004

Sci - M/M
May 63

AEC-NP-TR-1017 229,854
(9210747)

ATS

62-13989

Konstantinopol'skaya, M. B., Berstneva, Z. Ya.,
and Kargin, V. A.
HELICAL STRUCTURES OF POLYETHYLENE.
[1961] [5]p. 5 refs.
Order from OTS or SLA \$1.10 62-13989

- I. Konstantinopol'skaya, M. B.
- II. Berstneva, Z. Ya.
- III. Kargin, V. A.
- IV. Translations, New York

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2 [no. 11] p. 1714-1716.

DESCRIPTORS: *Ethylenes, *Polymers, Micro-
analysis, Microstructure, Electron microscopy.

Secondary structures of polyethylene, exhibiting a
helical structure, have been obtained. (Author)

(Chemistry--Organic, TT, v. 7, no. 11)

ATS

Office of Technical Services

61-12764

Kolesnikov, G. S. and Tezen, Khan-min.
CARBON-CHAIN POLYMERS AND COPOLYMERS.
XXVIII. PREPARATION OF GRAFT COPOLYMERS
BY THE REACTION OF POLY(METHYL METHACRY-
LATE) AND POLY(ETHYLENE AZELATE). [1960]
6p.

Order from ATS \$8.00

ATS-13N49R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1960, v. 2, no. 11, p. 1717-1721.

151541

(Chemistry--Organic, TT. v. 5, no. 8)

- 1. Polymers--Synthesis
- 2. Copolymerization--Analysis
- 3. Acrylates--Polymerization
- 4. Ethylenes--Polymerization
- 5. Title: Graft copolymers

I. Kolesnikov, G. S.

II. Tezen, Khan-min

III. ATS-13N49R

IV. Title: Preparation...

V. Associated Technical

Services, Inc.,

East Orange, N. J.

ATS/RJ-3013

Office of Technical Services

<p>Zubov, V. P., Kabanov, V. A. and others. THE INFLUENCE OF PRESSURE ON THE FORMA- TION OF THE MICROSTRUCTURE OF POLYMER CHAINS DURING POLYMERIZATION. [1961] 6p. Order from ATS \$8. 60 ATS-14N49R</p>	<p>61-22008</p> <ol style="list-style-type: none">1. Polymers--Microstructure2. Polymerization-- Physical factors3. Pressure--Physical effects <ol style="list-style-type: none">I. Zubov, V. P.II. Kabanov, V. A.III. ATS-14N49RIV. Associated Technical Services, Inc., East Orange, N. J.
<p>Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1960, v. 2, no. 11, p. 1722-1727.</p>	<p>158823</p>
<p>(Chemistry--Organic, TT, v. 5, no. 10)</p>	<p>Office of Technical Services</p>

ATS/RJ-3016

61-22931

Tokareva, L. G., Mikhailov, N. V. and others.
THE PROCESSES AND MECHANISM OF AGING OF
SYNTHETIC FIBERS. II. INVESTIGATIONS OF THE
STABILIZATION OF POLYAMIDE FIBERS. [1961] 13p.
Order from ATS \$13.60 ATS-97N51R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2, no. 11, p. 1728-1738.

DESCRIPTORS: *Synthetic fibers, Fibers, *Amides,
*Polymers, Aging, Stabilization, Processing.

(Materials--Plastics, TT, v. 6, no. 4)

- I. Tokareva, L. G.
- II. Mikhailov, N. V.
- III. ATS-97N51R
- IV. Associated Technical Services, Inc., East Orange, N. J.

AFS
ATS-RJ-3100

177759

Office of Technical Services

63-18412

Korotkov, A. A., Mitsengendler, S. P., and Aleev, K. M.
EFFECT OF DIETHYLETHER ON THE COPOLY-
MERIZATION PROCESS OF BUTADIENE WITH
STYRENE. [1963] 7p. 10 refs.
Order from OTS or SLA \$1.10 63-18412

Trans. of Vysokomolekulyarnye Soed[ineniya] (USSR).
1960, v. 2 [no. 12] p. 1811-1816.
Another trans. is available from PP in Polymer Science
USSR, v. 3, no. 3, \$100.00/year.

DESCRIPTORS: *Butadienes, *Styrenes, *Ethyl ethers,
Vinyl radicals, Copolymerization, Addition reactions,
Catalysts, *Lithium compounds, Butyl radicals.

The effect of diethyl ether on the polymerization
kinetics of divinyl and styrene in benzene at 30 C and
on the composition of the resultant polymers was
investigated. Addition of 0.05 mole/l ether increases
the content of styrene units in the copolymer from 13
(Materials--Plastics, TT, v. 10, no. 9) (over)

I. Title: Diethyl ether
I. Korotkov, A. A.
II. Mitsengendler, S. P.
III. Aleev, K. M.

Office of Technical Services

61-22012

Korshak, V. V., Sladkov, A. M., and
Kudryavtsev, Yu. P.
SYNTHESIS OF POLYMERIC ACETYLENIDES.
[1961] 5p.
Order from ATS \$7.50 ATS-87N49R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1960, v. 2, no. 12, p. 1824-1827.

- I. Acetylene polymers--
Synthesis
- I. Korshak, V. V.
- II. Sladkov, A. M.
- III. Kudryavtsev, Yu. P.
- IV. ATS-87N49R
- V. Associated Technical Services, Inc., East Orange, N. J.

ATS/RJ-3012

158827

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 10)

62-13839

Gluzman, M. Kh., Dashevskaya, B. I., and Bodnya, V. M.
PREPARATION OF POLYETHYLENE OXIDES BY POLYMERIZATION OF ETHYLENE OXIDE. [1961] [10]p. 20 refs.
Order from OTS or SLA \$1.10 62-13839

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1960, v. 2 [no. 12] p. 1832-1838.

DESCRIPTORS: *Ethylene oxide, *Polymers, Preparation, Polymerization, Catalysts.

Two methods of preparing polyethylene oxides were developed: by polymerization of ethylene oxide in an autoclave under pressure and by bubbling gaseous ethylene oxide through alkaline solutions of the glycol in apparatus of the column type. The composition of the polyethylene oxides and their properties are determined principally by the ethylene oxide: water and ethylene oxide : glycol ratios. The molar ratio of (Chemistry--Organic, TT, v. 7, no. 11) (over)

I. Gluzman, M. Kh.
II. Dashevskaya, B. I.
III. Bodnya, V. M.
IV. Translations, New York

Office of Technical Services

Tsen, Khan-min and Kolesnikov, G. S.
CARBON CHAIN POLYMERS AND COPOLYMERS.
XXIX. SYNTHESIS OF DIPHILIC GRAFT COPOLY-
MERS. [1961] [9]p. 8 refs.
Order from OTS or SLA \$1.10 62-13769

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2 [no. 12] p. 1870-1874.

DESCRIPTORS: *Polymers, Synthesis, Copolymeriza-
tion, Esters, *Acrylic acids.

It has been shown that graft copolymers of the diphilic
type may be produced by heating mixtures of metha-
crylic and α -hydroxypelargonic acids or of metha-
crylic acid and the polyhydroxypelargonate in the
presence of p-toluenesulfonic acid. The properties of
the resultant graft copolymers have been investigated.
It has been shown that spherulites are formed in the
graft copolymers. (Author) (See also 60-18470,
61-10703, 61-20643)

62-13769

- I. Title: Graft polymers
- I. Tsen, Khan-min
- II. Kolesnikov, G. S.
- III. Title: Synthesis . . .
- IV. Translations, New York

(Chemistry--Organic, TT, v. 7,
no. 11)

Office of Technical Services

61-22943

Krozer, S., Vainryb, M., and Silina, L.
ESTIMATION OF THE MOLECULAR WEIGHT DIS-
TRIBUTION OF POLYCARBONATES BY THE METHOD
OF TURBIDIMETRIC TITRATION. [1961] 6p.
Order from ATS \$9.75 ATS-20N52R

Trans. of Nyankomolekulyarnye Soedineniya (USSR)
1960, v. 2, no. 12, p. 1876-1881.

DESCRIPTORS: *Carbonates, *Polymers, *Molecular
weight, Distribution, *Titration.

- I. Krozer, S.
- II. Vainryb, M.
- III. Silina, L.
- IV. ATS-20N52R
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS-RJ-3081

177769

Office of Technical Services

(Chemistry--Organic, TT, v. 6, no. 4)

SOME POLYMERS IV. REVERSIBLE CHANGES IN
Diffusion Characteristics Under Irradiation,
by N.S. Tikhomirova, Yu.M. Malinskiy
RUSSIAN, per. Vysokomolekulyarnye Soedineniya
Vol 2, 1960, pp 1349-1359. 9232591
AEC UCRL-Tr-10009

Sci/Chemistry
May 66

300,499

Mel'nikova, E. P., Vansheidt, A. A. and others.
THE REACTION OF METALLIC SODIUM WITH
BIS(CHLOROMETHYL) DERIVATIVES OF AROMATIC
HYDROCARBONS. Pt. 1 of The Use of the Wurtz Re-
action for the Synthesis of Polymers of the Polyxylylene
Type. [1961] 8p.

Order from ATS \$15.15

ATS-42N57R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2, no. 9, p. 1383-1390.

DESCRIPTORS: *Chemical reactions, *Sodium, *Chlo-
rides, Methyl radicals, Synthesis, Polymers.

(Chemistry--Organic, TT, v. 7, no. 10)

62-12654

I. Mel'nikova, E. P.
II. Vansheidt, A. A.
III. Title: Use ...
IV. ATS-42N57R
V. Associated Technical
Services, Inc., East
Orange, N. J.

ATS-RJ-3070

Office of Technical Services

Lanovakaya, L. M., Gantmakher, A. R., and
Medvedev, S. S.
POLYMERIZATION OF ETHYLENE BY THE COM-
PLEX α - $TiCl_3$ - AlR_3 CATALYST IN THE PRESENCE
OF VARIOUS MONOMERS. I. THE INFLUENCE OF
VARIOUS MONOMERS ON THE POLYMERIZATION
OF ETHYLENE. [1960] 8p.
Order from ATS \$12.95

ATS-77M46R

Trans. of Vysokomolekulyarnaya Soedineniya (USSR)
1960, v. 2, no. 9, p. 1391-1397.

ATS-RJ-2664
147,026

(Chemistry--Organic, TT, v. 5, no. 5)

61-12372

1. Ethylenes--Polymerization
2. Complex compounds--
Catalytic properties
3. Aluminum compounds
(Organic)--Catalytic
properties
4. Titanium compounds
(Organic)--Catalytic
properties
- I. Lanovakaya, L. M.
- II. Gantmakher, A. R.
- III. Medvedev, S. S.
- IV. ATS-77M46R
- V. Associated Technical
Services, Inc., East
Orange, N. J.
- VI. Title: Influence...

Office of Technical Services

62-13908

Arbuzova, H. A., Kostikov, R. R., and Propp,
L. N.

POLYMERIZATION OF DIVINYLBENZAL. [1961]
[5]p. 5 refs.

Order from OTS or SLA \$1. 10

62-13908

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2 [no. 9] p. 1402-1404

DESCRIPTORS: *Polymerization, Acid, Benzenes,
Catalysts, *Vinyl radicals.

Polymerization in the presence of initiators of the
radical type yielded a linear polymer of divinylbenzal,
whose physical properties and analytical data indicated
that it had a cyclic structure.

(Chemistry--Organic, TT, v. 7, no. 11)

- I. Arbuzova, H. A.
- II. Kostikov, R. R.
- III. Propp, L. N.
- IV. Translations, New York

Office of Technical Services

Shlyapnikov, Yu. A., Miller, V. B. and others.
A STUDY OF THE COMPARATIVE EFFECTIVENESS
OF SOME ANTIOXIDANTS. Pt. 3 of the Thermo-
Oxidative Degradation of Polypropylenes. [1962] 4p.
Order from ATS \$6.25 ATS-81N52R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 3, no. 9, p. 1409-1412.

DESCRIPTORS: Propenes, *Antioxidants, Effective-
ness, Polymers, Heat.

(Chemistry--Organic, TT, v. 7, no. 11)

62-12788

- I. Shlyapnikov, Yu. A.
- II. Miller, V. B.
- III. Title: Thermo-Oxidative...
- IV. ATS-81N52R
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Kolensnikov, G. S., Rodionova, E. F. and others.
CARBON-CHAIN POLYMERS AND COPOLYMERS.
XXVII. THE POLYMERIZATION AND COPOLYMERI-
ZATION OF THE DI-N-BUTYL ESTER OF VINYL-
PHOSPHINIC ACID. [1961] [8] p. 7 refs.
Order from OTS or SLA \$1.10

61-20643

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2, [no. 9] p. 1432-1437.

DESCRIPTORS: Polymerization, *Copolymerization,
Condensation reactions, Polymers, Cyclic compounds,
Chlorine compounds, *Phosphinic acids, *Styrenes,
*Vinyl radicals, *Chlorides, *Acetates, Thermo-
chemistry, Mechanical properties, Esters, Butyl
radicals.

The polymerization of the di-n-butyl ester of vinyl-
phosphinic acid was studied under different conditions.
(Chemistry--Organic, TT, v. 7, no. 5) (over)

61-20643

I. Kolensnikov, G. S.
II. Rodionova, E. F.
III. Title: Polymerization ...

ATS-RJ-3074

Office of Technical Services

Determination of the Structural Glass
Transition Temperature From Experimental
Curves, by Yu. A. Gorbatkina. 6p
RUSSIAN, per, Vysokomolekulyarnye Soedineniya,
Vol 2, No 10, 1960, pp 1456-1458.
SLA TT-66-10656

Sci-M&M
Jul 66

306,108

63-17527-3

POLYMER SCIENCE USSR, 1962, VOL. 3, NO. 3,
P. 367-534. Jan 63, 1v.
Order from PP \$100.00/year

1. Pergamon Press, Inc.,
New York

Trans. of *Vysokomolekulyarnye Soedineniya (USSR)*
1960, v. 2, no. 10, p. 1449-1455, 1475-1480, 1486-
1499, 1521-1535; no. 11, p. 1613-1634, 1645-1658,
1678-1687, 1722-1738, 1745; no. 12, p. 1811-1827,
1839-1844, 1860-1869. Abstracts are included of se-
lected articles from v. 4, no. 2.

DESCRIPTORS: *Polymers, Chemistry, Condensation
reactions, *Chlorides, *Pyrocatechol, *Acrylic resins,
*Styrenes, Degradation, *Molecular spectroscopy,
*Benzenes, Polymerization, Copolymerization, *Ethyl-
enes, *Propenes, Deformation, Mechanical properties,
*Butadienes, *Chemical bonds, *Glycols, *Catalysts,
Anisotropy, Pressure, *Amides, *Fibers (Synthetic),
*Vinyl radicals, *Ethyl ethers, *Sodium,
(Chemistry--Organic, TT, v. 10, no. 4) (over)

Office of Technical Services

Azimov, S. A., Usmanov, Kh. U. and others.
γ-RAY-INDUCED GRAFTING OF SOME MONOMERS
TO NATURAL SILK AND CAPRON. [1961] 4p.
Order from ATS \$6.25 ATS-49N55R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1960, v. 2, no. 10, p. 1459-1462.

DESCRIPTORS: *X-rays, *Silk, Fibers, Chemical
reactions.

(Chemistry--Organic, TT, v. 6, no. 12)

61-25723

- I. Title: Capron
- I. Azimov, S. A.
- II. Usmanov, Kh. U.
- III. ATS-49N55R
- IV. Associated Technical Services, Inc., East Orange, N. J.

102111

Office of Technical Services

61-10980

Spasakly, S. S. and Molchanova, T. V.
THE COPOLYMERIZATION OF POLYESTERS WITH
VINYL- AND ALLYL MONOMERS. XI. COPOLYMERI-
ZATION OF POLYDIETHYLENE GLYCOL FUMARATE
ADIPLATE AND LOW MOLECULAR POLYDIETHYL-
ENE GLYCOLS FUMARATE WITH STYRENE. [1961]
[8]p. 9 refs.

Order from OTS or SLA \$1.10

61-10980

Trans. of *Vysokomolekulyarnye Soyedineniya* (USSR)
1960, v. 2 [no. 10] p. 1481-1485.

DESCRIPTORS: *Copolymerization, Polymers, *Esters,
*Vinyl radicals, *Allyl radicals, *Ethylenes, *Glycols,
Styrenes, Fumaric acids, Adipic acids.

I. Spasakly, S. S.
II. Molchanova, T. V.
III. Title: Copolymerization...

108540

Office of Technical Services

(Chemistry--Organic, TT, v. 6, no. 2)

62-10596

Kargin, V. A., Markova, G. S., and Kovaleva, V. P.
INVESTIGATION OF THE STRUCTURE AND PROPERTIES OF ETHYLENE AND PROPYLENE COPOLYMERS. [1961] 7p. (2 figs. omitted) 3 refs.
Order from OTS or SLA \$1.10 62-10596

I. Kargin, V. A.
II. Markova, G. S.
III. Kovaleva, V. P.

Trans. of [Vysokomolekulyarnye Soedineniya] (USSR)
1960, v. 2, no. 10, p. 1531-1534.

DESCRIPTORS: *Ethylenes, *Propenes, Mechanical properties, Molecular structure, *Polymers, Deformation, Crystals, Crystallization, Stresses.

Tests showed that with the increase of irregularity in the copolymer chains, the perfectness of crystalline regions is reduced. The diffraction picture of the crystalline regions is structurally similar to that of polyethylene or polypropylene. There are no intermediate structures or changes in the parameters that would suggest the arising of stresses in the crystals. (Chemistry--Physical, TT, v. 7, no. 11) (over)

Office of Technical Services

Terent'yev, A. P., Rode, V. V., and Rukhadze,
Ye. G.

STUDIES OF CHELATE POLYMERS. I. SYNTHESIS
OF CHELATE POLYMERS FROM 3,5'-METHYLENE-
bis-SALICYLALDEHYDE. [1960] 7p.
Order from ATS \$13.40

ATS-63N48R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1960, v. 2, no. 10, p. 1537-1543

151523

OTS 62-16626

(Chemistry--Organic, TT, v. 5, no. 8)

61-12765

1. Chelate compounds--
Synthesis
 2. Polymers--Synthesis
 - I. Terent'yev, A. P.
 - II. Rode, V. V.
 - III. Rukhadze, Ye. G.
 - IV. Title: Synthesis...
 - V. ATS-63N48R
 - VI. Associated Technical
Services, Inc., East
Orange, N. J.
- ATS/RT-3008

Office of Technical Services

Kozlov, P. V., Iovleva, M. M. and others.
THE SOLUBILITY OF SOME GRAFTED COPOLY-
MERS. [1961] 10p. (3 figs. omitted) 9 refs.
Order from LC or SLA mi\$1.80, ph\$1.80 61-10990

Trans. of Vysokomolekulyarnyye Soyedineniya
(USSR) 1960, v. 2 [no. 10] p. 1580-1585.

The state diagrams were studied of a series of grafted copolymers of diphilic type (starch-polystyrene, polyethylene terephthalate-polyacrylic acid) and grafted copolymers containing starting component having common solvents (polyisobutylene-polystyrene, polystyrene-polyvinyl acetate). In all cases the grafting causes lessening of the true solubility of the grafted copolymer as compared with the starting homopolymers. For the grafted copolymer from polystyrene and polyvinyl acetate the dissolution process is described by means of thermodynamical functions on the basis of data on integral mixing heat with benzene and hydrogenated monomers.

(Chemistry--Organic, TT, v. 5, no. 11) (over)

61-10990

1. Polymers--Solubility
 2. Styrene polymers--Solubility
 3. Starch--Solubility
 4. Isobutene polymers--Solubility
 5. Title: Graft copolymers
- I. Kozlov, P. V.
II. Iovleva, M. M.

159003

Office of Technical Services

The Mechanism of the Transition From Forced Elastic
to Highly Elastic ~~By~~ Rupture, by V. E. Gul',
I. M. Chernin.

RUSSIAN, per, ~~Vysokomolekuljarnye Soed.~~
HEXER Vol II, No 11, 1960, pp 1613-1615.

ELL/RTS 1960

Sci - Chem

ATS

193,833

Apr 62

TT-64-13225

1241628317

Polyakov, A. L., Derevitakaya, V. A., and Rogovin,
Z. A.
INVESTIGATION OF THE POSSIBILITY OF PREPAR-
ING UNSATURATED COMPOUNDS OF CELLULOSE
BY THE CHUGAEV REACTION
I. Gwronski, tr. 17 Jul 63, 5p 9refs Courtaulds Misc.
Lit. 3655; [DSIR] NLL M. 5440
Order from OTS, SLA, or ETC \$1.10 TT-64-13225

Trans. of Vysokomol[ekulyarnye] Soedin[eniya] (USSR)
1960, v. 2, no. 3, p. 386-389.

(Chemistry—Organic, TT, v. 12, no. 2)

I. Polyakov, A. L.
II. Derevitakaya, V. A.
III. Rogovin, Z. A.
IV. Courtaulds-ML-3655
V. DSIR-NLL-M. 5440
VI. Courtaulds Ltd.,
Manchester (England)

Office of Technical Services

Composition Equations of Three-Component Copolymers

Part I, by A. I. Tarasov,

RUSSIAN, per, Vysokomol Soedin, Vol 2, No 11,

1960, pp 1601-1607.

ATS RJ-5365

Sci-Chem

June 70

63-17527-1

POLYMER SCIENCE USSR, 1962, VOL. 3, NO. 1,
P. 1-210. May 62, 1v.
Order from PP \$100.00/year

I. Pergamon Press, Inc.,
New York

Trans. of *Vysokomolekulyarnye Soedineniya* (USSR)
1961, v. 3, no. 1, p. 10-13, 56-65, 81-83, 99-104,
134-143, 150-151, 161-163; no. 2, p. 184-204, 213-
214, 232-236, 290-309; no. 3, p. 363-367, 371-381,
408-413, 420-434, 470-474. Abstracts are included of
selected articles from v. 3, nos. 4-8.

DESCRIPTORS: *Polymers, Chemistry, Scientific re-
search, Light, Scattering, *Chemical bonds, Photo-
chemistry, *Amides, Polymerization, *Ethylenes,
Radiation chemistry, *Acrylic acids, Phase studies,
*Phthalates, *Styrenes, Electron bombardment, Re-
action kinetics, *Esters, Morphology, *Vinyl radicals,
*Acetates, *Diffusion, *Nuclear magnetic resonance,
*Acrylic resins, Copolymerization, *Methanols,
(Chemistry--Organic, TT, v. 10, no. 4) (over)

Office of Technical Services

61-25076

Rafikov, S. R. and Sorokina, R. A.
THERMAL-OXIDATIVE TRANSFORMATIONS OF
POLYAMIDES. Pt. 4 of Chemical Transformation of
Polymers. [1961] 10p.
Order from ATS \$13.75

ATS-40N53R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1961, v. 3, no. 1, p. 21-29.

DESCRIPTORS: *Amides, *Polymers, Oxidation,
Transformations, Thermochemistry.

I. Rafikov, S. R.
II. Sorokina, R. A.
III. ATS-40N53R
IV. Title: Chemical...
V. Associated Technical
Services, Inc.,
East Orange, N. J.

NLL M. 355.2
ATS/RJ-2996
176736

Office of Technical Services

(Chemistry--Organic, TT, v. 6, no. 6)

<p>Geller, B. E. CHANGES IN THE DENSITY OF MOLECULAR PACKING IN POLAR CARBON-CHAIN POLYMERS. [1961] 4p. Order from ATS \$8. 40 ATS-41N53R</p> <p>Trans. of <u>Vysokomolekulyarnye Soedineniya (USSR)</u> 1961, v. 3, no. 1, p. 33-36.</p> <p>DESCRIPTORS: *Polymers, Molecular structure, Density.</p> <p>(Chemistry--Organic, TT, v. 6, no. 7)</p>	<p>61-25176</p> <p>I. Geller, B. E. II. ATS-41N53R III. Associated Technical Services, Inc., East Orange, N. J.</p> <p><i>ATS-RJ-3082</i></p> <p><i>18191</i></p> <p>Office of Technical Services</p>
--	---

63-16595

Uskov, L. A., Tarasenko, Yu. G., and Kusnitsyna,
T. A.
FILLED POLYMERS. IV. COMPOUNDING OF DIS-
SOLVED POLYMETHYLMETHACRYLATE WITH
FILLERS. [1963] [8]p. 9 refs.
Order from OTS or SLA \$1.10 63-16595

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1961, v. 3, no. 1, p. 37-40.
Other translations are available from ATS \$6.25 as
ATS-94P59R [1962] 4p.; from ICE in v. 1, no. 1,
\$15.00/year; an abstract trans. from OTS or SLA
\$1.10 as 61-19866, AID-61-44, 10 Apr 61, 2p.

DESCRIPTORS: *Acrylic resins, Polymers, *Fillers,
Methyl radicals, Bentonite.

Using modified bentonites and polymethylmethacrylate
as an example, a method was worked out for adding a
(Materials--Plastics, TT, v. 10, no. 7) (over)

I. Title: Methyl methacrylate
I. Uskov, L. A.
II. Tarasenko, Yu. G.
III. Kusnitsyna, T. A.
IV. Title: Compounding ...

Office of Technical Services

TT-62-28722

Ispravnikova, A.G., Sletkina, L.S. and Rogovin, Z.A.
INFLUENCE SPÉCIFIQUE DES NITRATES DE CELLULOSE SUR LE PROCESSUS DE POLYMERISATION DE CERTAINS MONOMÈRES VINyliQUES CATALYSEE PAR DES RADICAUX LIBRES (Specific Effect of Cellulose Nitrates on the Process of Radical Polymerization of Some Vinyl Monomers). 14p. (foreign illegible text included) 4refs. CNRS-VI 704.
Order from OTS, ETC or CNRS \$1.60 TT-62-28722

Trans. in French of Vysokomolekulyarnye Soedineniya (USSR) 1961, v.3, no.1, p.46-49.
Trans. in English is available from TTIS \$14.00 as TTIS-4003, 1961, 1250 words.

DESCRIPTORS: *Vinyl plastics, Polymerization, Nitrocellulose, Chemical reactions,

(Materials--Plastics, TT, v. 11, no. 9)

- I. Ispravnikova, A.G.
- II. Sletkina, L.S.
- III. Rogovin, Z.A.
- IV. CNRS-VI 704
- V. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

Korshak, V. V., Vinogradova, S. V. and others.
A STUDY OF SOME RELATIONSHIPS GOVERNING
POLYCONDENSATION OF DICARBOXYLIC ACID
CHLORIDES WITH DIHYDRIC PHENOLS IN HIGH-
BOILING SOLVENTS. Pt. 30 of Hetero-Chain
Polyesters. [1961] 6p.
Order from ATS \$12.00

ATS-42N53R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1961, v. 3, no. 1, p. 66-71.

DESCRIPTORS: *Carboxylic acids, *Chlorides,
*Phenols, Condensation reactions, Organic solvents,
*Esters, Polymerization.

(Chemistry--Organic, TT, v. 6, no. 6)

61-25041

I. Korshak, V. V.
II. Vinogradova, S. V.
III. Title: Hetero-Chain...
IV. ATS-42N53R
V. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS/RJ-2994
176710

Office of Technical Services

<p>Korshak, V. V., Vinogradov, S. V. and others. HETEROCHAIN POLYESTERS. [XXXI]. A STUDY OF THE CHEMICAL PROPERTIES OF POLYARLATES. [1961] 9p. Order from ATS \$14.00 ATS-43N53R</p>	<p>61-25177</p>
<p>Trans. of <u>Vysokomolekulyarnye Soedineniya (USSR)</u> 1961, v. 3, no. 1, p. 72-80.</p>	<p>1. Title: Heterochain polymers 2. Title: Polyarlates I. Korshak, V. V. II. Vinogradov, S. V. III. Title: Study ... IV. ATS-43N53R V. Associated Technical Services, Inc., East Orange, N. J.</p>
<p>DESCRIPTORS: *Esters, *Polymers, Chemical properties.</p>	<p>ATS/RJ-2995 101320</p>
<p>(Chemistry--Organic, TT, v. 6, no. 7)</p>	<p>Office of Technical Services</p>