

Quality, performance and service are what Polycoat Products is all about. Polycoat Products is committed to supplying technologically advanced products that are suited to our customers' applications in an ever-changing and challenging marketplace.

Polycoat Products has been a supplier of a wide variety of products to the polyurethane industry since 1984. In the past, Polycoat Products has specialized in MDI based prepolymer systems for all types of elastomer applications. These products are based on Polyethers, Polyesters, PTMEG polyols, PPG polyols and blends of polyols to produce urethane elastomers that can fit most applications.

Let Polycoat become your partner in this demanding industry with its vast knowledge and material systems and complement your bottom line.



With our strong Research & Development and professionalism we aim to provide the highest quality products, services, and support to our most valuable asset-our customers around the world.

CALIFORNIA
14722 Spring Avenue
Santa Fe Springs, CA
90670-5108 USA



POLYCOAT PRODUCTS

A Division of American Polymers Corporation

TEXAS
2100 Reliance Parkway
Bedford, TX
76021-6122 USA

Contact Information

TEL: (562) 802-8834 • FAX: (562) 921-7363

INTERNET: www.polycoatusa.com • E-MAIL: sales@polycoatusa.com

Copyright ©2010 by Polycoat Products. All Rights Reserved.

Reproduction of the information in this document, either as a whole or in part, is forbidden unless written permission has been obtained.



POLYCOAT PRODUCTS

A Division of American Polymers Corporation

Polycoat Pre-Pol™

TDI BASED PREPOLYMERS FOR
HOT CAST POLYURETHANE ELASTOMERS



Our Mission

Our mission is to provide state-of-the-art, high quality polyurethane systems technology to meet or exceed the expectations of our customers in a responsive, efficient and cost-competitive manner.

Polycoat Products is proud to introduce, PRE-POL™ our new line of hot cast TDI based urethane prepolymer, for all types of elastomeric applications. These resins form unusually tough thermoset elastomers, when mixed with an appropriate curative.

Polycoat Products will be offering PRE-POL™ high performance TDI prepolymers in both polyethers and polyester types with hardness ranging from 70A to 75D. We can also blend custom systems to meet your needs and processing parameters.

TYPICAL PROPERTIES

	PPG				PTMEG				ESTER		
	P-412	P-632	P-782	P-952	T-314	T-444	T-624	T-724	E-336	E-446	E-546
% NCO	4.3	6.3	7.8	9.45	3.15	3.7	6.1	7.18	3.3	4.56	5.6
Parts per 100	12.3	18.9	23.4	27.8	9.4	13.2	18.8	21.5	10.1	13.8	16.9
Stoichiometry	95	95	95	95	95	95	95	95	95	95	95
Hardness	90A	95A	65D	75D	84A	91A	96A	55D	80A	91A	50D
100% Modulus Psi	963	1813	4141	4780	746	1256	2242	2680	594	916	1642
300% Modulus Psi	1568	3772	-	-	1251	2188	4658	6417	1048	1973	4389
Tensile Strength Psi	5404	6525	5539	9100	5206	4630	7546	8459	6679	7620	7553
% Elongation	932	480	189	215	1038	538	451	377	659	738	442
Tear Split D-470 (Pli)	92	200	112	173	131	80	154	139	121	202	728
Tear Resistance Die C (Pli)	450	517	825	-	459	538	592	558	485	476	178
Resilience, Rebound%	49	32	51	48	55	50	41	45	31	24	30
Compression Set	27	39	43	11	25	30	36	27	29	30	32

DISCLAIMER: All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said data are not guaranteed and are not to be construed as a warranty, either expressed or implied.

Every batch of material manufactured by Polycoat Products undergoes one of the most comprehensive testing procedures in the industry. This ensures that the material is consistent and of the highest quality and performance. It is this commitment to excellence that sets Polycoat Products a step above the rest.



POLYCOAT PRODUCTS

A Division of American Polyurea Corporation

TEL: 562-802-8834

FAX: 562-921-7363

www.polycoatusa.com

PPG Series "P"

Our "P" series are a series of liquid urethane polymers which can be cured to a strong solid by reaction of isocyanate groups with polyamine compounds. When cured with 4,4'-methylene-bis-(ortho-chloroaniline), commonly known as MBOCA, will produce elastomers in the hardness range of 70A to 75D.



Features of PPG's elastomers include:

- Abrasion Resistance
- Good Toughness
- Excellent Low Temperature Flexibility
- Very Good Dynamic Properties
- Low Viscosity
- High Resilience
- Easy Processing Characteristics

PTMEG Series "T"

Our "T" series are polyether-based (PTMEG) liquid polymers which will produce elastomers in the hardness range of 70A to 55D when cured with 4,4'-methylene-bis-(ortho-chloroaniline), commonly known as MBOCA.

- #### Features of PTMEG's elastomers include:
- Abrasion Resistance
 - Good Toughness
 - Excellent Low Temperature Flexibility
 - Very Good Dynamic Properties
 - Low Viscosity
 - High Resilience
 - Easy Processing Characteristics



Polyester Series "E"

Our "E" series are a TDI-Terminated polyester based prepolymer which will produce elastomer in the hardness range of 70A to 55D when cured with 4,4'-methylene-bis-(ortho-chloroaniline) commonly known as MBOCA.



Features of Polyesters elastomers include:

- Outstanding Abrasion Resistance
- High Tensile and Tear Properties
- Low Compression Set
- Excellent Low Temperature Flexibility
- Dynamic Properties
- High Load Bearing
- Easy Processing Characteristics
- Excellent Resistance to Heat, Humidity, Fuel, Solvents, and many other Environments