

Eastman Performance Additives and Polymers

Expanding the Possibilities for Thermoplastic Elastomer Compounds



The Material Difference™
in TPE Compounding

EASTMAN

Expanding the Possibilities for Thermoplastic Elastomer Compounds

Eastman Chemical Company, a leading global supplier of materials and solutions, offers a broad range of products that enhance thermoplastic elastomer (TPE) processability and performance.

From additives that improve flow and bondability to specialty polymers that can be blended or alloyed to meet specific performance requirements, *Eastman* products can help you enhance both the functional and economic benefits of finished TPE compounds.

Eastman Performance Additives and Polymers Features and Benefits

- > Improved visual clarity
- > Lower molding viscosity
- > Lower cycle times
- > Improved bondability with substrates
- > Improvement in upper temperature limits of SBCs
- > Improved compatibility with various feedstocks/fillers
- > Higher tear strength
- > High filler loading
- > Low tension set, low hysteresis elastomers
- > Broad range of chemical resistance
- > Targeted mid block or end block modification of SBCs

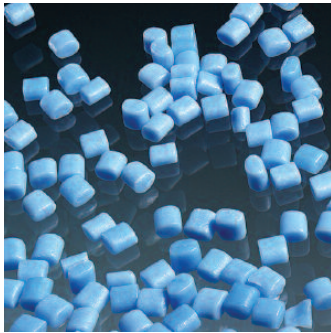


**The Material Difference™
in TPE Compounding**

Eastman Products for TPE Compounding

Performance Additives

Eastman's broad range of product additive technologies, combined with our fundamental material expertise, help make your polymers work better in TPE compounds.



Specialty Polymers

Eastman specialty polymers provide a range of benefits to TPE compounds, including strength, durability, and clarity.

Product Group	Brand Name	Major Features and Benefits
Aromatic Pure Monomer Resins (PMRs)		
<ul style="list-style-type: none"> > Water white > Exclusively modify styrenic blocks of SBCs > Increase ambient temperature cohesion > Decrease melt viscosity/increase melt index of TPE compounds at processing temperatures 	<i>Endex</i>	<ul style="list-style-type: none"> > PMRs with the highest available softening points > Increases high temperature resistance
	<i>Kristalex</i>	<ul style="list-style-type: none"> > Balance of melt processability vs. ambient temperature hardness and cohesion > Softening points 70°–140°C > Excellent thermal and UV stability
	<i>Piccotex</i>	<ul style="list-style-type: none"> > Some grades comply with U.S. FDA regulations for direct food contact > Softening points 75°–140°C
	<i>Plastolyn</i>	<ul style="list-style-type: none"> > Comply with most U.S. FDA regulations for direct food contact > Near water-white color > Good thermal stability > Softening points 120°–140°C
Fully Hydrogenated Hydrocarbon Resins		
<ul style="list-style-type: none"> > Water white > Exclusively modify saturated rubbery blocks of SBCs > Soften TPE compounds and increase flexibility without decreasing high temperature resistance > Improves bonding to a wide range of substrates 	<i>Regalite</i>	<ul style="list-style-type: none"> > Some grades comply with U.S. FDA regulations for direct food contact > Excellent thermal/UV stability > Softening points liquid—125°C
	<i>Regalrez</i>	<ul style="list-style-type: none"> > Lowest color hydrocarbon resin available > Superior UV and thermal discoloration resistance > Softening points liquid—140°C
	<i>Eastotac</i>	<ul style="list-style-type: none"> > Broad range of softening points > Range of color grades > Excellent bonding of TPE compound to aluminum, glass, and galvanized steel
Amorphous Polyolefins		
<ul style="list-style-type: none"> > Broad range of propylene homopolymers, propylene-ethylene copolymers, and mixtures to meet specific end use needs 	<i>Eastoflex</i>	<ul style="list-style-type: none"> > Viscosity and flow modification > Accepts high filler loading without loss cohesion > Increases flexibility without sacrificing compression set
Copolyester Polymers		
<ul style="list-style-type: none"> > Innovative elastomeric-like copolyester ethers > Imparts strength, durability, and puncture resistance 	<i>NeoStar</i>	<ul style="list-style-type: none"> > Exceptional heat resistance > High temperature dimensional stability > High flexibility without plasticizers > Excellent chemical resistance > Snappy, spring-like behavior > High clarity

Experience The Material Difference™
in your business with *Eastman* performance additives and polymers.

EASTMAN

NORTH AMERICA

Eastman Chemical Company Corporate Headquarters

P.O. Box 431

Kingsport, TN 37662-5280 U.S.A.

Telephone:

U.S.A. and Canada, 800-EASTMAN (800-327-8626)

Other Locations, (1) 423-229-2000

Fax: (1) 423-229-1193

www.eastman.com

LATIN AMERICA

Eastman Chemical Latin America

9155 South Dadeland Blvd.

Suite 1116

Miami, FL 33156 U.S.A.

Telephone: (1) 305-671-2800

Fax: (1) 305-671-2805

EUROPE / MIDDLE EAST / AFRICA

Eastman Chemical B.V.

Fascinatio Boulevard 602-614

2909 VA Capelle aan den IJssel

The Netherlands

Telephone: (31) 10 2402 111

Fax: (31) 10 2402 100

ASIA PACIFIC

Eastman Chemical Japan Ltd.

AIG Aoyama Building 5F

2-11-16 Minami Aoyama

Minato-ku, Tokyo 107-0062 Japan

Telephone: (81) 3-3475-9510

Fax: (81) 3-3475-9515

Eastman Chemical Asia Pacific Pte. Ltd.

#05-04 Winsland House

3 Killiney Road

Singapore 239519

Telephone: (65) 6831-3100

Fax: (65) 6732-4930

Eastman Chemical Company produces materials that enhance the lives of people worldwide. A FORTUNE 500 company, Eastman manufactures and markets over 1,200 chemicals, fibers, and plastics used in making everything from paint for houses to fabric for clothing to plastics for consumer products.

Material Safety Data Sheets providing safety precautions, that should be observed when handling and storing Eastman products, are available online or by request. You should obtain and review the available material safety information before handling any of these products. If any materials mentioned are not Eastman products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed.

Neither Eastman Chemical Company nor its marketing affiliates shall be responsible for the use of this information, or of any product, method or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment and for the health and safety of your employees and purchasers of your products. NO WARRANTY IS MADE OF THE MERCHANTABILITY OR FITNESS OF ANY PRODUCT, AND NOTHING HEREIN WAIVES ANY OF THE SELLER'S CONDITIONS OF SALE.

Eastman, Eastoflex, EBAC, Epolene, Endex, EMAC, Kristalex, Piccotex, Plastolyn, Neostar, Regalite, Regalrez, and The Material Difference are trademarks of Eastman Chemical Company.

© Eastman Chemical Company, 2006.

Publication WA-121
October 2006

Printed in U.S.A.