

POLYSTYRENE WITH RECYCLED CONTENT

Description

TOTAL Petrochemicals rePS-5 is a high heat crystal polystyrene that contains a minimum of 25% recycled polystyrene. The polymer was developed to have properties similar to TOTAL Petrochemicals 585 for use in tandem extrusion foam and injection molded applications.

Applications

- Foam Foodservice Packaging
- Cutlery, Housewares, Office Supplies

General Information

- This polystyrene material complies with FDA food contact regulations as set forth in 21 CFR §177.1640.
- Material Safety Data Sheets are available to help customers satisfy their safety needs.



Properties

Rheological Properties	ASTM Test	Unit	Typical Value
Melt Flow (200°C-5kg)	D-1238	g/10mn	3
Thermal Properties			
Heat Distortion - Annealed	D-648	°F	211
Vicat Softening	D-1525	°F	225
Tensile Properties			
Strength	D-638	psi	7,600
Modulus	D-638	psi (10 ⁵)	4.2
Flexural Properties			
Strength	D-790	psi	15,200
Modulus	D-790	psi (10 ⁵)	4.9
Other Properties			
Density		g/cm ³	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1

03/2012

Polystyrene



Total Petrochemicals & Refining USA, Inc.
www.totalpetrochemicalsrefining.com
 1201 Louisiana Street
 Suite 1800
 Houston, TX 77002

CUSTOMER SERVICE
 P.O. Box 674411
 Houston, Texas 77267-4411
 Phone: 1-800-344-3462
 Fax: 713-483-5293

TECHNICAL CENTER
 P.O. Box 1200
 Deer Park, Texas 77536
 Phone: 281-884-7500
 Fax: 281-884-7576

1-800-344-3462

All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of these products must be guided by the user's own methods for selection of proper formulation. Total Petrochemicals & Refining USA, Inc. disclaims any responsibility for misuse or misapplication of its products. Total Petrochemicals & Refining USA, Inc. MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. Total Petrochemicals & Refining USA, Inc. liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.