

POLYSTYRENE WITH RECYCLED CONTENT

Description

TOTAL Petrochemicals rePS-8 is high impact polystyrene that contains a minimum of 20% recycled polystyrene content. rePS-8 was developed specifically for the foodservice market and is designed to have properties similar to TOTAL Petrochemicals 825E. The polymer's balanced properties and processing characteristics make it especially suitable for extrusion/thermoforming applications

Applications

- Food service packaging, drink lids

General Information

- The 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	4.0
Thermal Properties			
Heat Distortion - Annealed	D-648	°F	201
Vicat Softening	D-1525	°F	211
Impact Properties			
Falling Dart	D-3029	in-lb	104
Izod - notched	D-256	ft-lbs/in	2.0
Tensile Properties			
Strength	D-638	psi	3,400
Modulus	D-638	psi (10 ⁵)	3.0
Elongation	D-638	%	52
Flexural Properties			
Strength	D-790	psi	7,100
Modulus	D-790	psi (10 ⁵)	3.3
Other Properties			
Gloss	D-523	60°	90
Density		g/cm ³	1.04
Linear Shrinkage	D-955	in/in	.004 - .007
Moisture		%	<0.1

Polystyrene

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