

TOTAL Polystyrene rePS-8

General Purpose Polystyrene
TOTAL Refining & Chemicals

Message:

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.

General Information	
Recycled Content	Yes,20%
Features	Food Contact Acceptable
Uses	Drink Lids
	Food Packaging
Agency Ratings	FDA 21 CFR 177.1640
Forms	Pellets
Processing Method	Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Moisture	< 0.10	%	
Falling Dart Impact	11.8	J	ASTM D3029
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2070	MPa	ASTM D638
Tensile Strength	23.4	MPa	ASTM D638
Tensile Elongation (Yield)	52	%	ASTM D638
Flexural Modulus	2280	MPa	ASTM D790
Flexural Strength	49.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	93.9	°C	ASTM D648
Vicat Softening Temperature	99.4	°C	ASTM D1525
Optical	Nominal Value		Test Method

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Recommended distributors for this material

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