

TOTAL Polystyrene Crystal rePS-5

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

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.

General Information	
Recycled Content	Yes,25%
Features	Food Contact Acceptable
Uses	Foam
	Food Packaging
	Household Goods
Agency Ratings	FDA 21 CFR 177.1640
Forms	Pellets
Processing Method	Coextrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Moisture	< 0.10	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2900	MPa	ASTM D638
Tensile Strength	52.4	MPa	ASTM D638
Flexural Modulus	3380	MPa	ASTM D790
Flexural Strength	105	MPa	ASTM D790

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	99.4	°C	ASTM D648
Vicat Softening Temperature	107	°C	ASTM D1525

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