

Total Impact Polystyrene 940E Super High Impact Polystyrene, Sheet Extrusion and Thermoforming Grade

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

TOTAL Petrochemicals 940E is a super high impact polystyrene designed for high gloss sheet extrusion and thermoforming applications that require additional toughness. Applications: The combination of high gloss, toughness and high stiffness makes 940E an excellent choice for cups, food packaging, custom sheet and coextrusion applications. An excellent high gloss resin for specialty injection appliance and electronic applications. General Information: This material complies with FDA requirements as described in 21 CFR § 177.1640. This material holds Underwriters Laboratory recognition 94HB; see UL file E55470. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-Impact-Polystyrene-940E-Super-High-Impact-Polystyrene-Sheet-Extrusion-and-Thermoforming-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	
Water Absorption	<= 0.10 %	<= 0.10 %	
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	2.8 g/10 min @Load 5.00 kg, Temperature 200 °C	2.8 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.2 MPa	3800 psi	ASTM D638
Elongation at Yield	50 %	50 %	ASTM D638
Tensile Modulus	2.07 GPa	300 ksi	ASTM D638
Flexural Strength	47.6 MPa	6900 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256
Impact Test	217 J @Thickness 25.4 mm	160 ft-lb @Thickness 1.00 in	Falling Dart; ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	101 °C	214 °F	ASTM D1525
Heat Distortion Temperature	93.9 °C	201 °F	Annealed; ASTM D648

Optical Properties	Metric	English	Comments
Gloss	92 %	92 %	60°; ASTM D523

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