

Total PSI 940E Impact Polystyrene

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

Material Notes:

Description: 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. Information provided provided by Total Petrochemicals. Total Petrochemicals acquired former Fina and Atofina plastics product lines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PSI-940E-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
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	24.8 MPa	3600 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Tensile Modulus	2.07 GPa	300 ksi	ASTM D638
Flexural Strength	46.2 MPa	6700 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	1.49 J/cm	2.80 ft-lb/in	ASTM D256
Falling Dart Impact	16.9 J	12.5 ft-lb	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	94.4 °C	202 °F	Annealed; ASTM D648
Vicat Softening Point	98.9 °C	210 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Gloss	90 %	90 %	60°; ASTM D523

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