

Total PSI 945E Polystyrene

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

Material Notes:

Polystyrene 945E is a high impact polystyrene designed for applications requiring extra toughness without sacrificing mechanical properties. Excellent falling dart impact combined with the high gloss. This polymer is superior for co-extrusion of high gloss sheet. 945E has unique capabilities for deep draw thermoforming with good sidewall distribution. An excellent candidate for ABS applications. Information provided by Total Petrochemicals, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PSI-945E-Polystyrene.php

Physical Properties	Metric	English	Comments
Melt Flow	3.5 g/10 min @Load 5.00 kg, Temperature 200 °C	3.5 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 Yield	55 %	55 %	ASTM D638
Tensile Modulus	2.07 GPa	300 ksi	ASTM D638
Flexural Strength	43.4 MPa	6300 psi	ASTM D790
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256
Falling Dart Impact	18.07 J	13.33 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	90.0 °C	194 °F	Heat Distortion, Annealed; ASTM D648
Vicat Softening Point	95.0 °C	203 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Gloss	88 %	88 %	60°; ASTM D523

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