

Total PSI 945 Polystyrene

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

Material Notes:

Polystyrene 945 is designed for injection molding applications requiring superior toughness. This polymer is a high impact polystyrene with excellent gloss and falling dart properties. The impact and gloss levels achievable with 945 allow design engineers to use this polymer instead of more expensive engineering polymers. Applications such as industrial guards, appliance housings, toys, and industrial spools are candidates for 946. Information provided by Total Petrochemicals, Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Melt Flow	9.0 g/10 min @Load 5.00 kg, Temperature 200 °C	9.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	19.3 MPa	2800 psi	ASTM D638
Elongation at Yield	55 %	55 %	ASTM D638
Tensile Modulus	1.86 GPa	270 ksi	ASTM D638
Flexural Strength	38.6 MPa	5600 psi	ASTM D790
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
Izod Impact, Notched	1.39 J/cm	2.60 ft-lb/in	ASTM D256
Falling Dart Impact	15.82 J	11.67 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	95.6 °C	204 °F	ASTM D1525

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

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