

Total PSI 825 Polystyrene

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

Material Notes:

Polystyrene 825 is a high impact polystyrene for injection molding. They polymers ability to be molded on fast cycles with minimal stresses results in outstanding impact retention.Applications such as appliance housings, house wares, toys, and structural foam require this polymer to produce consistent parts. Advanced rubber particle size control makes 825 the choice for all high gloss applications.Information provided by Total Petrochemicals, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PSI-825-Polystyrene.php

Physical Properties	Metric	English	Comments
Melt Flow	8.0 g/10 min	8.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.8 MPa	3600 psi	ASTM D638
Elongation at Yield	50 %	50 %	ASTM D638
Tensile Modulus	2.28 GPa	330 ksi	ASTM D638
Flexural Strength	46.2 MPa	6700 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
Falling Dart Impact	14.11 J	10.41 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	91.1 °C	196 °F	Heat Distortion, Annealed; ASTM D648
Vicat Softening Point	96.1 °C	205 °F	ASTM D1525

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

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