

Total PSI 825EX Polystyrene

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

Material Notes:

Polystyrene 825EX is a high impact polystyrene designed for high stiffness in extrusion/thermoforming applications. The balance of high stiffness and impact properties allow for light weighting of thermoformed cups and containers. Other features include excellent extrusion processing, good gloss, and FDA compliance. 825EX is utilized in such products as drinking cups, dairy containers, bowls, and drink lids. Information provided by Total Petrochemicals, Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Melt Flow	3.0 g/10 min @Load 5.00 kg, Temperature 200 °C	3.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.6 MPa	4000 psi	ASTM D638
Elongation at Yield	45 %	45 %	ASTM D638
Tensile Modulus	2.14 GPa	310 ksi	ASTM D638
Flexural Strength	55.2 MPa	8000 psi	ASTM D790
Flexural Modulus	2.48 GPa	360 ksi	ASTM D790
Izod Impact, Notched	1.01 J/cm	1.90 ft-lb/in	ASTM D256
Falling Dart Impact	13.6 J	10.0 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	93.3 °C	200 °F	Heat Distortion, 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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