

Total PSC 500 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Polystyrene 500 is a high melt, easy flow crystal polystyrene for fast cycle injection molding. The high flow characteristics of this material make it easy to fill thin parts. 500 is utilized in products such as cutlery, tumblers, and containers. Other features are excellent clarity and FDA compliance. Information provided by Total Petrochemicals, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PSC-500-Polystyrene.php

Physical Properties	Metric	English	Comments
Melt Flow	14 g/10 min @Load 5.00 kg, Temperature 200 °C	14 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	42.1 MPa	6100 psi	ASTM D638
Tensile Modulus	2.90 GPa	420 ksi	ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	3.03 GPa	440 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	86.7 °C	188 °F	Heat Distortion, Annealed; ASTM D648
Vicat Softening Point	93.3 °C	200 °F	ASTM D1525

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