

American Polymers API 410 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

API 410 is a low impact polystyrene with very high gloss and superior dimensional stability. Applications: API 410 is ideally suited for point of purchase displays where high gloss and some impact is needed. Other applications include caps, closures and frames. Information provided by American Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_American-Polymers-API-410-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Melt Flow	12 g/10 min	12 g/10 min	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	28.3 MPa	4100 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Flexural Modulus	1.97 GPa	285 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm @Thickness 3.17 mm	0.700 ft-lb/in @Thickness 0.125 in	injection molded sample; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	87.2 °C	189 °F	Annealed; ASTM D648
Vicat Softening Point	97.8 °C	208 °F	ASTM D1525

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