

American Polymers API 375 Polystyrene

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

Material Notes:

API 375 is a general purpose polystyrene produced in pellet form for injection molding. API 375 has excellent strength and clarity as well as fast set-up properties. Applications: Used in the manufacture of containers, housewares, toys and medical applications. Information provided by American Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_American-Polymers-API-375-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792
Melt Flow	5.0 g/10 min	5.0 g/10 min	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	76	76	ASTM D785
Tensile Strength, Ultimate	44.5 MPa	6450 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Tensile Modulus	2.85 GPa	413 ksi	ASTM D638
Izod Impact, Notched	0.160 J/cm @Thickness 3.17 mm	0.300 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)	90.6 °C	195 °F	Annealed; ASTM D648
Vicat Softening Point	102 °C	215 °F	ASTM D1525

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