

American Polymers API 395 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Transparent Grade

Material Notes:

API 395 is one of the highest flowing crystal polystyrenes commercially available. It is produced in pellet form for injection molding and compounding. This material is designed for hard to fill applications. Applications: Used in the manufacture of housewares, light diffusers, medical applications and as a base resin for color concentrate producers. Information provided by American Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_American-Polymers-API-395-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792
Melt Flow	18 g/10 min	18 g/10 min	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	71	71	ASTM D785
Tensile Strength, Ultimate	47.6 MPa	6900 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Tensile Modulus	2.96 GPa	430 ksi	ASTM D638
Izod Impact, Notched	0.133 J/cm @Thickness 3.17 mm	0.250 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)	85.0 °C	185 °F	Annealed; ASTM D648
Vicat Softening Point	93.3 °C	200 °F	ASTM D1525

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