

American Polymers API 550 Polystyrene

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

Material Notes:

API 550 is a high impact grade of polystyrene. It is characterized by good impact and processability. Applications: API 550 is widely used in housewares, toys, containers, appliance parts, speaker housings and various types of extrusions. Information provided by American Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_American-Polymers-API-550-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Melt Flow	8.0 g/10 min	8.0 g/10 min	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	47	47	ASTM D785
Tensile Strength, Ultimate	26.9 MPa	3900 psi	ASTM D638
Elongation at Break	45 %	45 %	ASTM D638
Tensile Modulus	1.59 GPa	230 ksi	ASTM D638
Flexural Modulus	1.93 GPa	280 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 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)	81.1 °C	178 °F	Annealed; ASTM D648
Vicat Softening Point	85.0 °C	185 °F	ASTM D1525

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