

American Polymers API 550 HF Polystyrene

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

Material Notes:

API 550 HF is a high impact grade of polystyrene. It is characterized by good impact and processability. API 550 HF offers good retention of mechanical properties in applications with long flow length requirements. Applications: Information provided by American Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_American-Polymers-API-550-HF-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
Hardness, Rockwell L	47	47	ASTM D785
Tensile Strength, Ultimate	25.5 MPa	3700 psi	ASTM D638
Elongation at Break	45 %	45 %	ASTM D638
Tensile Modulus	1.86 GPa	270 ksi	ASTM D638
Flexural Modulus	2.14 GPa	310 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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