

American Polymers API 545 Polystyrene

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

Material Notes:

API 545 is a high impact, high heat resistant grade of impact modified polystyrene. This material features fast set-up as well as easy colorability. Applications: API 545 is suggested for heavy parts with large cross section requiring high impact resistance. Housings, tote bins, shoe heels are some examples. Information provided by American Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_American-Polymers-API-545-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Melt Flow	5.5 g/10 min	5.5 g/10 min	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	47	47	ASTM D785
Tensile Strength, Ultimate	27.6 MPa	4000 psi	ASTM D638
Elongation at Break	58 %	58 %	ASTM D638
Tensile Modulus	1.93 GPa	280 ksi	ASTM D638
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
Izod Impact, Notched	1.01 J/cm @Thickness 3.17 mm	1.90 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)	87.8 °C	190 °F	Annealed; ASTM D648
Vicat Softening Point	98.9 °C	210 °F	ASTM D1525

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