

Westlake Plastics HIPS High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

HIPS is a low cost plastic material that is easy to machine and fabricate. It is often specified for low strength structural applications when impact resistance, machinability, and low cost are required. It is frequently used machining preproduction prototypes since it has excellent dimensional stability and is easy to fabricate. HIPS is FDA compliant for use in food processing applications. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-HIPS-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	ASTM D7852
Tensile Strength at Break	24.1 MPa	3500 psi	ASTM D638
Tensile Strength, Yield	19.3 MPa	2800 psi	ASTM D638
Elongation at Break	52 %	52 %	ASTM D638
Tensile Modulus	1.65 GPa	239 ksi	ASTM D638
Flexural Yield Strength	42.7 MPa	6200 psi	ASTM D790
Flexural Modulus	1.91 GPa	277 ksi	ASTM D790
Izod Impact, Notched	1.12 J/cm	2.10 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	87.2 °C	189 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	73.9 °C	165 °F	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 1.47 mm	@Thickness 0.0580 in	

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