

Westlake Plastics HIPS High Impact Polystyrene, Compression Molded

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Compression molded HIPS is a low cost plastic material that is easily machined and fabricated. It is frequently used for preproduction prototyping. HIPS is a FDA compliant 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-Compression-Molded.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 L	60	60	ASTM D7852
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 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	87.2 $^{\circ}\text{C}$	189 $^{\circ}\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	73.9 $^{\circ}\text{C}$	165 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 1.47 mm	@Thickness 0.0580 in	

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