

Spartech SP-2010 HIPS Polystyrene Sheet

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

Material Notes:

Description: Polystyrene Sheet Information provided by Spartech.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-SP-2010-HIPS-Polystyrene-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	68	68	ASTM D785
Tensile Strength, Yield	24.1 MPa	3500 psi	ASTM D638
Tensile Modulus	1.86 GPa	270 ksi	ASTM D638
Flexural Yield Strength	48.3 MPa	7000 psi	ASTM D790
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
Izod Impact, Unnotched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
Falling Dart Impact	9.04 J	6.67 ft-lb	73°F; ASTM D3029

Thermal Properties	Metric	English	Comments
CTE, linear	81.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	45.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	85.0 $\text{Å}^\circ\text{C}$	185 $\text{Å}^\circ\text{F}$	ASTM D648
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Gloss	75 %	75 %	Gardner; ASTM D2523

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