

Styrolution PS 5801 HIPS

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

Material Notes:

Exceptional processability High toughness USP Class VI certified UI Classification 94 HB Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-5801-HIPS.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D 792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D 955
Melt Flow	14.5 g/10 min @Load 5.00 kg, Temperature 200 °C	14.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	55	55	ASTM D 785
Tensile Strength, Yield	21.4 MPa	3100 psi	ASTM D 638
Elongation at Break	35 %	35 %	ASTM D 638
Tensile Modulus	2.07 GPa	300 ksi	ASTM D 638
Flexural Strength	37.9 MPa	5500 psi	ASTM D 790
Flexural Modulus	2.10 GPa	305 ksi	ASTM D 790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D 638

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 Åm/m-°C	50.0 Åin/in-°F	ASTM D 696
Vicat Softening Point	92.8 °C @Load 1.02 kg	199 °F @Load 2.25 lb	120°C/h; ASTM D 1525
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Gloss	55 %	55 %	Specular Gloss, 60°; ASTM D 523

Electrical Properties	Metric	English	Comments
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Electrical Properties Dielectric Constant	^{2.5} Metric	^{2.5} English	Comments ASTM D 150
	@Thickness 1.00 mm, Frequency 1.00e+6 Hz	@Thickness 0.0394 in, Frequency 1.00e+6 Hz	
Dielectric Strength	15.7 kV/mm	400 kV/in	ASTM D 696

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