

Samyang Trihip[®] B500 High Impact Polystyrene

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

Material Notes:

Dimensional stability, electrical properties and weather resistance are excellent. B500 is the non-flame retardant grade. Applications: LCD TV Rear Cover - for high flow Office Machine Housing (O/A, Printer) - for high flow Information provided by Samyang.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Trihip-B500-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	14 g/10 min	14 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D785
Tensile Strength	24.5 MPa	3560 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Flexural Yield Strength	34.3 MPa	4980 psi	ASTM D790
Flexural Modulus	1.86 GPa	270 ksi	ASTM D790
Izod Impact, Notched	0.981 J/cm @Thickness 3.17 mm	1.84 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	77.0 Å°C	171 Å°F	ASTM D648
Vicat Softening Point	89.0 Å°C	192 Å°F	ASTM D1525
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

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