

KKPC Kuhmo HI 450PG High Gloss HIPS

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

Material Notes:

Common Uses: Monitor swivels, washers.HIPS is a functional resin made by copolymerization of styrene monomer and PBR. It shows excellent balance between impact-resistance and heat-resistance.Data provided by Korea Kumho Petrochemical Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_KKPC-Kuhmo-HI-450PG-High-Gloss-HIPS.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	24 hr immersion; ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	6.5 g/10 min	6.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	ASTM D785
Tensile Strength, Ultimate	34.2 MPa	4960 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Flexural Yield Strength	49.21 MPa	7138 psi	ASTM D790
Flexural Modulus	2.252 GPa	326.6 ksi	ASTM D790
Izod Impact, Notched	0.892 J/cm @Thickness 3.20 mm	1.67 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	81.0 Â°C	178 Â°F	unannealed; ASTM D648
Vicat Softening Point	97.0 Â°C	207 Â°F	ASTM D1525
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 2.20 mm	HB @Thickness 0.0866 in	
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	17.7 kV/mm	450 kV/in	ASTM D149

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