KKPC Kuhmo HI 425TVG High Flow/High Heat Resistant HIPS

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

Material Notes:

Key features: High-impact, High-fluidity Common Uses: TV cover (gas injection).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-425TVG-High-FlowHigh-Heat-Resistant-HIPS.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	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	9.5 g/10 min	9.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	60	60	ASTM D785
Tensile Strength, Ultimate	26.0 MPa	3770 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Yield Strength	33.19 MPa	4814 psi	ASTM D790
Flexural Modulus	1.615 GPa	234.3 ksi	ASTM D790
Izod Impact, Notched	0.988 J/cm @Thickness 3.20 mm	1.85 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	76.0 °C	169 °F	unannealed; ASTM D648
Vicat Softening Point	97.0 °C	207 °F	ASTM D1525
Flammability, UL94	HB @Thickness 2.20 mm	HB @Thickness 0.0866 in	
	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB	HB	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	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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