

KKPC Kuhmo HI 420T Transparent HIPS

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Transparent Grade

Material Notes:

Key features: Translucent Extrusion. Common Uses: Transparent toys, glass cases, various products made by injection molding needing contact-movability. 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-420T-Transparent-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	8.0 g/10 min	8.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	11	11	ASTM D785
Tensile Strength, Ultimate	37.2 MPa	5390 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Flexural Yield Strength	43.49 MPa	6308 psi	ASTM D790
Flexural Modulus	1.5763 GPa	228.62 ksi	ASTM D790
Izod Impact, Notched	0.246 J/cm @Thickness 3.20 mm	0.460 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	77.0 Â°C	171 Â°F	unannealed; ASTM D648
Vicat Softening Point	100 Â°C	212 Â°F	ASTM D1525
Flammability, UL94	HB	HB	
	@Thickness 2.20 mm	@Thickness 0.0866 in	
	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	

Thermal Properties	Metric	English	Comments
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@ Thickness 3.20 mm

@ Thickness 0.126 in

Optical Properties	Metric	English	Comments
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Transmission, Visible

80 %

80 %

Mfr species transparent but does not quantify

Electrical Properties	Metric	English	Comments
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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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