

KKPC Kuhmo HFH 405 Flame Retarded HIPS

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Flame Retardant

Material Notes:

Key features: Non-halogen type. Common Uses: Parts needing non-halogen type. 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-HFH-405-Flame-Retarded-HIPS.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 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	16 g/10 min	16 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	65	65	ASTM D785
Tensile Strength, Ultimate	24.5 MPa	3560 psi	ASTM D638
Elongation at Break	70 %	70 %	ASTM D638
Flexural Yield Strength	45.1 MPa	6540 psi	ASTM D790
Flexural Modulus	2.35 GPa	341 ksi	ASTM D790
Izod Impact, Notched	1.23 J/cm @Thickness 3.20 mm	2.30 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	74.0 Â°C	165 Â°F	unannealed; ASTM D648
	83.0 Â°C	181 Â°F	annealed; ASTM D648
Vicat Softening Point	92.0 Â°C	198 Â°F	ASTM D1525
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	
	V-2 @Thickness 3.20 mm	V-2 @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 Constant	2.6	2.6	ASTM D792
Dielectric Strength	17.7 kV/mm	450 kV/in	ASTM D149

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