

Kingfa MAC-751 HF PC/ABS Alloy

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Features:Excellent balance propertiesSuper high impact strengthGood electro-plating propertiesGood processing propertiesGood

glossApplications:Injection moldingAutomobile instrument panelElectrical and electronic partsComputer and accessoriesHousehold

appliance thin wall partsInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-MAC-751-HF-PCABS-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Water Absorption	0.20 %	0.20 %	ASTM D570
	@Temperature 23.0 Å°C, Time 86400 sec	@Temperature 73.4 Å°F, Time 24.0 hour	
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Melt Flow	15 g/10 min	15 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 Å°C	@Load 11.0 lb, Temperature 500 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ASTM D785
Tensile Strength at Break	56.0 MPa	8120 psi	50mm/min; ASTM D638
Elongation at Break	>= 60 %	>= 60 %	50mm/min; ASTM D638
Flexural Strength	80.0 MPa	11600 psi	2mm/min; ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	2mm/min; ASTM D790
Izod Impact, Notched	3.50 J/cm	6.56 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -30.0 Å°C	@Thickness 0.126 in, Temperature -22.0 Å°F	
	5.40 J/cm	10.1 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Å°C	@Thickness 0.126 in, Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	126 Â°C @Thickness 6.40 mm	259 Â°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	115 Â°C @Thickness 6.40 mm	239 Â°F @Thickness 0.252 in	ASTM D648
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Processing Temperature	<= 265 Â°C	<= 509 Â°F	
Rear Barrel Temperature	220 - 245 Â°C	428 - 473 Â°F	Start Point: 230Â°C
Middle Barrel Temperature	220 - 250 Â°C	428 - 482 Â°F	Start Point: 235Â°C
Front Barrel Temperature	230 - 260 Â°C	446 - 500 Â°F	Start Point: 240Â°C
Melt Temperature	220 - 250 Â°C	428 - 482 Â°F	Start Point: 245Â°C
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	Start Point: 60Â°C
Drying Temperature	100 - 110 Â°C @Time 14400 - 21600 sec	212 - 230 Â°F @Time 4.00 - 6.00 hour	Pre-dry
Back Pressure	0.300 - 1.00 MPa	43.5 - 145 psi	

Descriptive Properties	Value	Comments
Injection Speed	60-90%	

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