

Kingfa MAC-851 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-851-PCABS-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc @Temperature 23.0 Â°C	1.16 g/cc @Temperature 73.4 Â°F	ASTM D792
Water Absorption	0.20 % @Temperature 23.0 Â°C, Time 86400 sec	0.20 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm @Temperature 23.0 Â°C	0.0050 - 0.0070 in/in @Temperature 73.4 Â°F	ASTM D955
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 260 Â°C	15 g/10 min @Load 11.0 lb, Temperature 500 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	55.0 MPa	7980 psi	50mm/min; ASTM D638
Elongation at Break	>= 60 %	>= 60 %	50mm/min; ASTM D638
Flexural Strength	85.0 MPa	12300 psi	2mm/min; ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	2mm/min; ASTM D790
Izod Impact, Notched	4.00 J/cm @Thickness 3.20 mm, Temperature -32.0 Â°C	7.49 ft-lb/in @Thickness 0.126 in, Temperature -25.6 Â°F	ASTM D256
	6.00 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	11.2 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	135 Å°C @Thickness 6.40 mm	275 Å°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	123 Å°C @Thickness 6.40 mm	253 Å°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+16 ohm	1.00e+16 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Processing Temperature	<= 265 Å°C	<= 509 Å°F	
Rear Barrel Temperature	220 - 245 Å°C	428 - 473 Å°F	Start Point: 230Å°C
Middle Barrel Temperature	220 - 250 Å°C	428 - 482 Å°F	Start Point: 235Å°C
Front Barrel Temperature	250 - 260 Å°C	482 - 500 Å°F	Start Point: 250Å°C
Melt Temperature	220 - 260 Å°C	428 - 500 Å°F	Start Point: 245Å°C
Mold Temperature	40.0 - 80.0 Å°C	104 - 176 Å°F	Start Point: 60Å°C
Drying Temperature	100 - 110 Å°C @Time 14400 - 21600 sec	212 - 230 Å°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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