

Kingfa MAC-601 DY Modified 60/40 PC/ABS Alloy

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

Material Notes:

Features:Excellent balance propertiesHigh impact strengthGood electro-plating propertiesGood processing

propertiesApplications:Injection moldingAutomobile instrument panelPower toolComputer 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-601-DY-Modified-6040-PCABS-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Water Absorption	0.10 %	0.10 %	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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	50mm/min; ASTM D638
Elongation at Break	80 %	80 %	50mm/min; ASTM D638
Flexural Strength	80.0 MPa	11600 psi	2mm/min; ASTM D790
Flexural Modulus	2.25 GPa	326 ksi	2mm/min; ASTM D790
Izod Impact, Notched	6.40 J/cm	12.0 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Å°C	@Thickness 0.126 in, Temperature 73.4 Å°F	
Izod Impact, Unnotched	5.31 J/cm	9.95 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)	124 Å°C	255 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties (at 1.8 MPa (264 psi))	108 Â°C Metric	226 Â°F English	Comments
	@Thickness 6.40 mm	@Thickness 0.252 in	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@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+15 ohm	1.00e+15 ohm	ASTM D257
Dielectric Strength	28.0 kV/mm	711 kV/in	1.6mm; ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	<= 260 Â°C	<= 500 Â°F	
Rear Barrel Temperature	220 - 235 Â°C	428 - 455 Â°F	Start Point: 230Â°C
Middle Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	Start Point: 235Â°C
Front Barrel Temperature	230 - 250 Â°C	446 - 482 Â°F	Start Point: 240Â°C
Melt Temperature	220 - 250 Â°C	428 - 482 Â°F	Start Point: 245Â°C
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	Start Point: 70Â°C
Drying Temperature	100 - 110 Â°C	212 - 230 Â°F	Pre-dry
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	
Back Pressure	0.300 - 1.00 MPa	43.5 - 145 psi	

Descriptive Properties	Value	Comments
Injection Speed	60-80%	

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