

## Kingfa MAC-451 PC/ABS Alloy

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

### Material Notes:

Features:Excellent balance propertiesGood impact strengthGood processing propertiesSuit for electro-platingApplications:Injection moldingHousehold applianceAutomobile interior/exterior trim partsTelecommunication equipmentComputer and accessoriesInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kingfa-MAC-451-PCABS-Alloy.php](http://www.lookpolymers.com/polymer_Kingfa-MAC-451-PCABS-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc @Temperature 23.0 Â°C	1.10 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, Flow	0.0040 - 0.0060 cm/cm @Temperature 23.0 Â°C	0.0040 - 0.0060 in/in @Temperature 73.4 Â°F	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Temperature 23.0 Â°C	0.0040 - 0.0060 in/in @Temperature 73.4 Â°F	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength at Break	50.0 MPa	7250 psi	50mm/min; ASTM D638
Elongation at Break	60 %	60 %	50mm/min; ASTM D638
Flexural Strength	75.0 MPa	10900 psi	2mm/min; ASTM D790
Flexural Modulus	2.25 GPa	326 ksi	2mm/min; ASTM D790
Izod Impact, Notched	5.00 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	9.37 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256
Izod Impact, Unnotched	NB @Thickness 3.20 mm, Temperature 23.0 Â°C	NB @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	112 Â°C @Thickness 6.40 mm	234 Â°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	100 Â°C @Thickness 6.40 mm	212 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+16 ohm	1.00e+16 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Processing Temperature	<= 250 Â°C	<= 482 Â°F	
Rear Barrel Temperature	210 - 230 Â°C	410 - 446 Â°F	Start Point: 230Â°C
Middle Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	Start Point: 225Â°C
Front Barrel Temperature	225 - 245 Â°C	437 - 473 Â°F	Start Point: 230Â°C
Melt Temperature	220 - 240 Â°C	428 - 464 Â°F	Start Point: 230Â°C
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	Start Point: 60Â°C
Drying Temperature	90.0 - 100 Â°C @Time 14400 - 21600 sec	194 - 212 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	40-80%	

## Contact Songhan Plastic Technology Co.,Ltd.

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