

## Kingfa MAC-451PG Electroplating 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 moldingAutomobile license plateWater tank coverComputer and accessoriesInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kingfa-MAC-451PG-Electroplating-PCABS-Alloy.php](http://www.lookpolymers.com/polymer_Kingfa-MAC-451PG-Electroplating-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
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	19 g/10 min @Load 5.00 kg, Temperature 260 Â°C	19 g/10 min @Load 11.0 lb, Temperature 500 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	50mm/min; ASTM D638
Elongation at Break	>= 40 %	>= 40 %	50mm/min; ASTM D638
Flexural Strength	75.0 MPa	10900 psi	2mm/min; ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	2mm/min; ASTM D790
Izod Impact, Notched	4.50 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	8.43 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

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.60 - 3.20 mm	@Thickness 0.0630 - 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	30.0 kV/mm	762 kV/in	1.6mm; ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	<= 265 Â°C	<= 509 Â°F	
Rear Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	Start Point: 235Â°C
Middle Barrel Temperature	220 - 250 Â°C	428 - 482 Â°F	Start Point: 240Â°C
Front Barrel Temperature	230 - 260 Â°C	446 - 500 Â°F	Start Point: 240Â°C
Melt Temperature	220 - 240 Â°C	428 - 464 Â°F	Start Point: 235Â°C
Mold Temperature	60.0 - 90.0 Â°C	140 - 194 Â°F	Start Point: 80Â°C
Drying Temperature	90.0 - 105 Â°C @Time 14400 - 21600 sec	194 - 221 Â°F @Time 4.00 - 6.00 hour	Pre-dry
Back Pressure	0.000 - 10.0 MPa	0.000 - 1450 psi	

Descriptive Properties	Value	Comments
Injection Speed	60-90%	
Weather Resistance (delta E)	ASTM D4459; 200hr xenon lamp	

## Contact Songhan Plastic Technology Co.,Ltd.

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