

Kingfa PC-S609 Toughened PC

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified

Material Notes:

Features: Good mechanical properties Super high impact strength Good weather resistance High gloss Good processing properties Stress cracking properties Applications: OA and IT parts Automobile accessories Electrical and electronic parts Switch and plug Household appliance Information Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-PC-S609-Toughened-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc @Temperature 23.0 Â°C	1.19 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	12 - 16 g/10 min @Load 1.20 kg, Temperature 300 Â°C	12 - 16 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.0 MPa	8410 psi	50mm/min; ASTM D638
Elongation at Break	>= 60 %	>= 60 %	50mm/min; ASTM D638
Flexural Strength	82.0 MPa	11900 psi	2mm/min; ASTM D790
Flexural Modulus	2.30 GPa	334 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)	131 Â°C @Thickness 6.40 mm	268 Â°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa	125 Â°C	257 Â°F	

(264 psi) Thermal Properties	Metric @Thickness 6.40 mm	English @Thickness 0.252 in	ASTM D648 Comments
Flammability, UL94	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	
	@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

Processing Properties	Metric	English	Comments
Processing Temperature	<= 275 Â°C	<= 527 Â°F	
Rear Barrel Temperature	240 - 270 Â°C	464 - 518 Â°F	Start Point: 240Â°C
Middle Barrel Temperature	240 - 260 Â°C	464 - 500 Â°F	Start Point: 235Â°C
Front Barrel Temperature	250 - 260 Â°C	482 - 500 Â°F	Start Point: 240Â°C
Melt Temperature	240 - 280 Â°C	464 - 536 Â°F	Start Point: 250Â°C
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	Start Point: 60Â°C
Drying Temperature	100 - 115 Â°C	212 - 239 Â°F	Pre-dry
	@Time 10800 - 14400 sec	@Time 3.00 - 4.00 hour	
Back Pressure	0.300 - 1.00 MPa	43.5 - 145 psi	

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

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