

Kingfa PC-S923 Modified PC

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

Material Notes:

Features:Excellent balance propertiesGood weather resistanceHigh impact strengthGood electro-plating propertiesGood processing propertiesApplications: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-PC-S923-Modified-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
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
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	61.0 MPa	8850 psi	50mm/min; ASTM D638
Elongation at Break	>= 90 %	>= 90 %	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	6.10 J/cm	11.4 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	NB	NB	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)	132 Å°C	270 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	128 Å°C	262 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties	V-2 Metric	V-2 English	Comments
	@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	<= 300 Â°C	<= 572 Â°F	
Rear Barrel Temperature	230 - 270 Â°C	446 - 518 Â°F	Start Point: 250Â°C
Middle Barrel Temperature	235 - 280 Â°C	455 - 536 Â°F	Start Point: 260Â°C
Front Barrel Temperature	240 - 290 Â°C	464 - 554 Â°F	Start Point: 270Â°C
Melt Temperature	240 - 280 Â°C	464 - 536 Â°F	Start Point: 250Â°C
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	Start Point: 70Â°C
Drying Temperature	110 Â°C @Time 14400 - 21600 sec	230 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	60-90%	
Weather Resistance (delta E)	ASTM D4459; 300hr xenon lamp	

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