

## Kingfa PC-WT01 Weather Resistance PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### 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 partInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kingfa-PC-WT01-Weather-Resistance-PC.php](http://www.lookpolymers.com/polymer_Kingfa-PC-WT01-Weather-Resistance-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc @Temperature 23.0 Â°C	1.20 g/cc @Temperature 73.4 Â°F	ASTM D792
Water Absorption	0.12 % @Temperature 23.0 Â°C, Time 86400 sec	0.12 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	60.0 MPa	8700 psi	50mm/min; ASTM D638
Elongation at Break	90 %	90 %	50mm/min; ASTM D638
Flexural Strength	83.0 MPa	12000 psi	2mm/min; ASTM D790
Flexural Modulus	2.28 GPa	331 ksi	2mm/min; ASTM D790
Izod Impact, Notched	7.00 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	13.1 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)	132 Â°C	270 Â°F	ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	128 Å°C @Thickness 6.40 mm	262 Å°F @Thickness 0.252 in	ASTM D648
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	88 % @Thickness 3.00 mm	88 % @Thickness 0.118 in	ASTM D1003

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	<= 295 Å°C	<= 563 Å°F	
Rear Barrel Temperature	250 - 280 Å°C	482 - 536 Å°F	Start Point: 255Å°C
Middle Barrel Temperature	265 - 285 Å°C	509 - 545 Å°F	Start Point: 265Å°C
Front Barrel Temperature	260 - 290 Å°C	500 - 554 Å°F	Start Point: 275Å°C
Melt Temperature	250 - 285 Å°C	482 - 545 Å°F	Start Point: 275Å°C
Mold Temperature	40.0 - 80.0 Å°C	104 - 176 Å°F	Start Point: 60Å°C
Drying Temperature	110 - 120 Å°C @Time 10800 - 14400 sec	230 - 248 Å°F @Time 3.00 - 4.00 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; 500hr xenon lamp	

## Contact Songhan Plastic Technology Co.,Ltd.

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