

Kingfa PC-WT01

Polycarbonate Alloy

Kingfa

Message:

Kingfa PC-WT01 is a polycarbonate alloy (PC alloy) material. This product is available in North America or Asia Pacific region. The processing method is injection molding.

The main features of Kingfa PC-WT01 are:

- flame retardant/rated flame
- Good processability
- Impact resistance
- good weather resistance

Typical application areas include:

- Electrical/electronic applications
- electrical appliances
- engineering/industrial accessories
- home apps
- Automotive Industry

General Information			
Features	Impact resistance, high		
	Electroplateable		
	Workability, good		
	Good weather resistance		
Uses	Thin wall parts		
	Computer components		
	Electrical components		
	Electrical appliances		
	Household goods		
	Car dashboard		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.50 - 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.12	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	60.0	MPa	ASTM D638
Tensile Elongation ² (Break)	90	%	ASTM D638
Flexural Modulus ³	2280	MPa	ASTM D790
Flexural Strength ⁴	83.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	700	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.20 mm)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	132	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	128	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	88.0	%	ASTM D1003
Additional Information			
Weather Resistance, ASTM D4459, 500hr xenon lamp: <2 delta E			
Injection	Nominal Value	Unit	
Drying Temperature	110 - 120	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	250 - 280	°C	
Middle Temperature	265 - 285	°C	
Front Temperature	260 - 290	°C	
Processing (Melt) Temp	250 - 285	°C	
Mold Temperature	40.0 - 80.0	°C	
Back Pressure	0.300 - 1.00	MPa	
Injection instructions			
Processing Temperature Limit: 295°C Injection Speed: 60 to 90%			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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