

Kingfa PC-S923

Polycarbonate Alloy

Kingfa

Message:

Kingfa PC-S923 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-S923 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			
UL YellowCard	E171666-268385		
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	1.19	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.50 - 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	61.0	MPa	ASTM D638
Tensile Elongation ² (Break)	90	%	ASTM D638
Flexural Modulus ³	2400	MPa	ASTM D790
Flexural Strength ⁴	85.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	610	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			UL 94
1.60 mm	V-2		UL 94
3.20 mm	V-2		UL 94
Additional Information			
Weather Resistance, ASTM D4459, 300hr xenon lamp: <2 delta E			
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	230 - 270	°C	
Middle Temperature	235 - 280	°C	
Front Temperature	240 - 290	°C	
Processing (Melt) Temp	240 - 280	°C	
Mold Temperature	60.0 - 80.0	°C	
Back Pressure	0.300 - 1.00	MPa	
Injection instructions			
Processing Temperature Limit: 300°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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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