

Kingfa PC-S809

Polycarbonate Alloy

Kingfa

Message:

Kingfa PC-S809 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-S809 are:

flame retardant/rated flame

high gloss

Good processability

Impact resistance

good weather resistance

Typical application areas include:

Electrical/electronic applications

electrical appliances

home apps

Automotive Industry

General Information			
UL YellowCard	E171666-268385		
Features	Ultra-high impact resistance		
	Highlight		
	Workability, good		
	Good cracking resistance		
	Good weather resistance		
Uses	Electrical components		
	Electrical appliances		
	Household goods		
	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ASTM D1238
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	60.0	MPa	ASTM D638
Tensile Elongation ² (Break)	60	%	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			ASTM D256
-30°C, 3.20 mm	320	J/m	ASTM D256
23°C, 3.20 mm	620	J/m	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, 200hr xenon lamp: <2 delta E			
Injection	Nominal Value	Unit	
Drying Temperature	105 - 115	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	230 - 270	°C	
Middle Temperature	235 - 280	°C	
Front Temperature	240 - 290	°C	
Processing (Melt) Temp	230 - 280	°C	
Mold Temperature	40.0 - 80.0	°C	
Back Pressure	0.300 - 1.00	MPa	
Injection instructions			
Processing Temperature Limit: 300°CInjection 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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