

KumhoSunny PC 2203I

Polycarbonate

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

PC2203I is a super high impact and high flow PC resin, offering excellent normal and low temperature impact strength and UV stability. PC2203I is recommended for mobile phone housing and other products require high impact.

General Information			
UL YellowCard	E254819-101572872		
Additive	UV Stabilizer		
Features	Good UV Resistance		
	Low Temperature Impact Resistance		
	Ultra High Impact Resistance		
Uses	Cell Phones		
Forms	Pellets		
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 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	60.0	MPa	ASTM D638
Tensile Elongation ² (Break)	100	%	ASTM D638
Flexural Modulus ³	1950	MPa	ASTM D790
Flexural Strength ⁴	78.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	850	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	125	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Shot Size	40 to 60	%	

Rear Temperature	240 to 270	°C
Middle Temperature	250 to 290	°C
Front Temperature	265 to 310	°C
Nozzle Temperature	260 to 310	°C
Processing (Melt) Temp	265 to 310	°C
Mold Temperature	60.0 to 100	°C
Back Pressure	0.200 to 0.800	MPa
Screw Speed	20 to 100	rpm

NOTE

- | | |
|----|------------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 3.0 mm/min |
| 4. | 3.0 mm/min |

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