

KumhoSunny PC 2503I

Polycarbonate

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

PC2503I is high impact PC resin. It has high tenacity in normal and low temperature and excellent UV stability. PC2503I is mainly used in impact products, helmet, etc.

General Information			
Features	Good UV Resistance		
	High Impact Resistance		
Uses	Safety Helmets		
UL File Number	E254819		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	62.0	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	1950	MPa	ASTM D790
Flexural Strength	80.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 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 (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	250 to 270	°C	
Middle Temperature	260 to 280	°C	
Front Temperature	280 to 300	°C	

Nozzle Temperature	280 to 290	°C
Processing (Melt) Temp	240 to 290	°C
Mold Temperature	60.0 to 100	°C
Back Pressure	0.300 to 1.00	MPa
Screw Speed	20 to 100	rpm

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Recommended distributors for this material

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