

Sindustris PC SC2203

Polycarbonate

Sincerity Australia Pty Ltd.

Message:

Sindustris PC SC2203 is a Polycarbonate (PC) material filled with 20% glass fiber. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris PC SC2203 are:

Flame Rated

Chemical Resistant

Good Toughness

Impact Resistant

Typical applications include:

Electrical/Electronic Applications

Housings

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Chemical Resistance		
	Good Impact Resistance		
	Good Toughness		
Uses	Cell Phones		
	Housings		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.10 to 0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	90.7	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	7.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	4510	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	147	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	210	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	144	°C	ASTM D648
RTI Elec	80.0	°C	UL 746
RTI Imp	80.0	°C	UL 746

RTI Str	80.0	°C	UL 746
Flammability	Nominal Value	Test Method	
Flame Rating (0.700 mm)	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	3.0 to 5.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	280 to 295	°C	
Middle Temperature	285 to 305	°C	
Front Temperature	290 to 310	°C	
Nozzle Temperature	290 to 305	°C	
Processing (Melt) Temp	290 to 315	°C	
Mold Temperature	100 to 140	°C	
Back Pressure	0.981 to 3.92	MPa	
Screw Speed	40 to 70	rpm	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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