

Sindustris PC GP2103

Polycarbonate

Sincerity Australia Pty Ltd.

Message:

Sindustris PC GP2103 is a Polycarbonate (PC) material filled with 10% glass fiber. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris PC GP2103 are:

Flame Rated

Chemical Resistant

Good Toughness

Typical application of Sindustris PC GP2103: Electrical/Electronic Applications

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	General Purpose		
	Good Chemical Resistance		
	Good Toughness		
Uses	Cell Phones		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	124		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	54.9	MPa	ASTM D638
Tensile Elongation ² (Yield, 3.20 mm)	20	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3240	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	290	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	137	°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 (0.750 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	280 to 300	°C
Front Temperature	290 to 305	°C
Nozzle Temperature	290 to 305	°C
Processing (Melt) Temp	295 to 310	°C
Mold Temperature	90.0 to 110	°C
Back Pressure	0.981 to 3.92	MPa
Screw Speed	40 to 70	rpm

NOTE

- | | |
|----|------------|
| 1. | 5.0 mm/min |
| 2. | 50 mm/min |
| 3. | 10 mm/min |
| 4. | 10 mm/min |

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