

Sindustris PC GP2201

Polycarbonate

Sincerity Australia Pty Ltd.

Message:

Sindustris PC GP2201 is a Polycarbonate (PC) material filled with 20% glass fiber. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris PC GP2201 are:

Flame Rated

Heat Resistant

Typical applications include:

Automotive

Electrical/Electronic Applications

Housings

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	General Purpose		
	High Heat Resistance		
Uses	Automotive Interior Parts		
	Electrical/Electronic Applications		
	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)	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)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	98.1	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	5.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	5390	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	157	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	140	°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 (1.50 mm, NC, BK)	V-2	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	270 to 300	°C
Middle Temperature	280 to 310	°C
Front Temperature	290 to 330	°C
Nozzle Temperature	290 to 330	°C
Processing (Melt) Temp	300 to 340	°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.	5.0 mm/min	
3.	10 mm/min	
4.	10 mm/min	

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