

Sindustris PC GN5202F

Polycarbonate + ABS
Sincerity Australia Pty Ltd.

Message:

Sindustris PC GN5202F is a Polycarbonate + ABS (PC+ABS) material filled with 20% glass fiber. It is available in Asia Pacific for injection molding.
Important attributes of Sindustris PC GN5202F are:
Flame Rated
Flame Retardant
Halogen Free
High Stiffness
Typical applications include:
Housings
Electrical/Electronic Applications

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	High Stiffness		
Uses	Electrical Housing		
	Electrical/Electronic Applications		
	Housings		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	103	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	5.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	5880	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)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	105	°C	ASTM D648
RTI Elec	60.0	°C	UL 746

RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-0		
	V-0		

2.00 mm, BK	5VB		
Injection	Nominal Value	Unit	
Drying Temperature	75.0 to 85.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.040	%	
Rear Temperature	230 to 250	°C	
Middle Temperature	245 to 265	°C	
Front Temperature	260 to 275	°C	
Nozzle Temperature	260 to 275	°C	
Processing (Melt) Temp	245 to 275	°C	
Mold Temperature	60.0 to 80.0	°C	
Back Pressure	0.981 to 1.96	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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