

Sindustris PC GN2102FC

Polycarbonate

Sincerity Australia Pty Ltd.

Message:

Sindustris PC GN2102FC is a Polycarbonate (PC) material filled with 10% glass fiber. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris PC GN2102FC are:

Flame Rated

Flame Retardant

Halogen Free

Heat Resistant

Typical applications include:

Housings

Electrical/Electronic Applications

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	High Heat Resistance		
Uses	Electrical Housing		
	Electrical/Electronic Applications		
	Housings		
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)	76.5	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3820	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	118	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	78	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	138	°C	ASTM D648

RTI Elec	120	°C	UL 746
RTI Imp	90.0	°C	UL 746
RTI Str	105	°C	UL 746

Flammability	Nominal Value	Test Method
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Flame Rating		UL 94
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1.50 mm	V-0	
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	V-0	
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3.00 mm	5VA	
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Injection	Nominal Value	Unit
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Drying Temperature	100 to 120	°C
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Drying Time	3.0 to 5.0	hr
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Suggested Max Moisture	0.020	%
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Rear Temperature	270 to 300	°C
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Middle Temperature	280 to 310	°C
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Front Temperature	290 to 330	°C
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Nozzle Temperature	290 to 330	°C
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Processing (Melt) Temp	300 to 340	°C
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Mold Temperature	90.0 to 120	°C
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Back Pressure	0.981 to 3.92	MPa
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Screw Speed	40 to 70	rpm
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NOTE		
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1.	50 mm/min	
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2.	5.0 mm/min	
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3.	1.3 mm/min	
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4.	1.3 mm/min	
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