

Sindustris PC GN1001FA

Polycarbonate
Sincerity Australia Pty Ltd.

Message:

Sindustris PC GN1001FA is a Polycarbonate (PC) material. It is available in Asia Pacific for injection molding.
Important attributes of Sindustris PC GN1001FA are:
Flame Rated
Flame Retardant
Clarity
Halogen Free
Typical applications include:
Housings
Electrical/Electronic Applications

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	High Clarity		
Uses	Electrical Housing		
	Electrical/Electronic Applications		
	Housings		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	72.6	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 0.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2650	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)	34	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	95.0	°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			UL 94
2.50 mm	V-0		
3.00 mm	V-0		
Optical	Nominal Value	Unit	Test Method
Transmittance	89.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	75.0 to 85.0	°C	
Drying Time	3.0 to 5.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	220 to 240	°C	
Middle Temperature	235 to 255	°C	
Front Temperature	250 to 265	°C	
Nozzle Temperature	250 to 265	°C	
Processing (Melt) Temp	235 to 265	°C	
Mold Temperature	50.0 to 80.0	°C	
Back Pressure	0.981 to 3.92	MPa	
Screw Speed	40 to 70	rpm	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	10 mm/min		
4.	10 mm/min		

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