

Sindustris PC GP5107F

Polycarbonate + ABS
Sincerity Australia Pty Ltd.

Message:

Sindustris PC GP5107F is a Polycarbonate + ABS (PC+ABS) material filled with 10% glass fiber. It is available in Asia Pacific for injection molding.
Important attributes of Sindustris PC GP5107F are:
Flame Rated
Flame Retardant
Typical applications include:
Electrical/Electronic Applications
Housings

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Uses	Electrical/Electronic Applications		
	Housings		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	4.0	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)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	65.7	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	7.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3920	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)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	113	°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

2.50 mm	V-0	
3.00 mm	V-0	
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	0.200 to 0.600	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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