

Sindustris PC SG5010F

Polycarbonate + ABS

Sincerity Australia Pty Ltd.

Message:

Sindustris PC SG5010F is a Polycarbonate + ABS (PC+ABS) material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris PC SG5010F are:

Flame Rated

Flame Retardant

Halogen Free

High Gloss

Scratch Resistant

Typical applications include:

Electrical/Electronic Applications

Housings

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	High Gloss		
	High Scratch Resistance		
Uses	Computer Components		
	Electrical/Electronic Applications		
	Housings		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.60	%	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)	58.8	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 100	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2670	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	98.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm)	90.0	°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 (1.60 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.040	%	
Rear Temperature	230 to 270	°C	
Middle Temperature	235 to 275	°C	
Front Temperature	235 to 275	°C	
Nozzle Temperature	235 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.	50 mm/min		
2.	50 mm/min		
3.	10 mm/min		
4.	10 mm/min		

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