

Sindustris PC EC5001A

Polycarbonate

Sincerity Australia Pty Ltd.

Message:

Sindustris PC EC5001A is a Polycarbonate (PC) material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris PC EC5001A are:

Flame Rated

Antistatic

Typical applications include:

Electrical/Electronic Applications

Housings

General Information			
Additive	Antistatic		
Features	Antistatic		
	General Purpose		
Uses	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) (300°C/1.2 kg)	9.0	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)	104		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	54.9	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	< 80	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3140	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	94.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	97.0	°C	ASTM D648
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	1.0E+10 to 1.0E+11	ohms	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	60.0 to 80.0	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	210 to 240	°C	
Middle Temperature	215 to 250	°C	
Front Temperature	225 to 260	°C	
Nozzle Temperature	220 to 250	°C	
Processing (Melt) Temp	230 to 260	°C	
Mold Temperature	50.0 to 70.0	°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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