

Sindustris PC NS5001C

Polycarbonate
Sincerity Australia Pty Ltd.

Message:

Sindustris PC NS5001C is a Polycarbonate (PC) material. It is available in Asia Pacific for injection molding.
Important attributes of Sindustris PC NS5001C are:
Flame Rated
Heat Resistant
High Flow
Impact Resistant
Typical application of Sindustris PC NS5001C: Automotive

General Information			
Features	High Flow		
	High Heat Resistance		
	High Impact Resistance		
Uses	Automotive Interior Parts		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	4.8	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	114		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	53.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 100	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2160	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	85.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	55	J/m	
23°C, 3.20 mm	690	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	114	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	

Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	240 to 270	°C
Middle Temperature	245 to 275	°C
Front Temperature	245 to 275	°C
Nozzle Temperature	245 to 275	°C
Processing (Melt) Temp	250 to 275	°C
Mold Temperature	50.0 to 70.0	°C
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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