

Sindustris PC HI5003A

Polycarbonate

Sincerity Australia Pty Ltd.

Message:

Sindustris PC HI5003A is a Polycarbonate (PC) material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris PC HI5003A are:

Flame Rated

High Flow

Impact Resistant

Typical applications include:

Electrical/Electronic Applications

Housings

General Information			
Features	General Purpose		
	High Flow		
	High Impact Resistance		
Uses	Electrical/Electronic Applications		
	Housings		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.80	%	ASTM D955
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)	70	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2060	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	5.88	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	560	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	104	°C	ASTM D648
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm)	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	4.0 to 6.0	hr	

Suggested Max Moisture	0.020	%
Rear Temperature	230 to 255	°C
Middle Temperature	235 to 265	°C
Front Temperature	235 to 265	°C
Nozzle Temperature	235 to 265	°C
Processing (Melt) Temp	230 to 260	°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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