

Sindustris PC HP5005

Polycarbonate

Sincerity Australia Pty Ltd.

Message:

Sindustris PC HP5005 is a Polycarbonate (PC) material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris PC HP5005 are:

Flame Rated

Heat Resistant

High Flow

Impact Resistant

Typical applications include:

Electrical/Electronic Applications

Housings

General Information			
Features	General Purpose		
	High Flow		
	High Heat Resistance		
	Low Temperature Impact Resistance		
Uses	Cell Phones		
	Housings		
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)	5.0	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)	111		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)	100	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2260	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	88.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	490	J/m	
23°C, 3.20 mm	590	J/m	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	112	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (0.700 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	3.0 to 5.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	240 to 250	°C	
Middle Temperature	250 to 280	°C	
Front Temperature	250 to 280	°C	
Nozzle Temperature	250 to 280	°C	
Processing (Melt) Temp	255 to 285	°C	
Mold Temperature	80.0 to 100	°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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