

Sindustris PC HP5005A

Polycarbonate
Sincerity Australia Pty Ltd.

Message:

Sindustris PC HP5005A is a Polycarbonate (PC) material. It is available in Asia Pacific for injection molding.
Important attributes of Sindustris PC HP5005A are:
Flame Rated
Impact Resistant
Heat Resistant
Weldable
Typical applications include:
Electrical/Electronic Applications
Housings

General Information			
Features	General Purpose		
	High Heat Resistance		
	High Impact Resistance		
	Low Temperature Impact Resistance		
	Weldable		
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)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		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)	130	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2060	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	640	J/m	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	118	°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 (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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Recommended distributors for this material

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