

Sindustris PC GP5007BH

Polycarbonate

Sincerity Australia Pty Ltd.

Message:

Sindustris PC GP5007BH is a Polycarbonate (PC) material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris PC GP5007BH are:

Good Toughness

Heat Resistant

Impact Resistant

Typical application of Sindustris PC GP5007BH: Safety Equipment

General Information			
Features	Good Impact Resistance		
	Good Toughness		
	High Heat Resistance		
Uses	Safety Helmets		
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)	3.3	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)	56.9	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)	91.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	540	J/m	
23°C, 3.20 mm	710	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	116	°C	ASTM D648
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	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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

