

Sindustris PBT GP1007FD

Polybutylene Terephthalate

Sincerity Australia Pty Ltd.

Message:

Sindustris PBT GP1007FD is a Polybutylene Terephthalate (PBT) material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris PBT GP1007FD are:

Flame Rated

Flame Retardant

Impact Resistant

Typical applications include:

Electrical/Electronic Applications

Automotive

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	High Impact Resistance		
Uses	Automotive Applications		
	Connectors		
	Electrical/Electronic Applications		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	1.2 to 2.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	51.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 50	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2260	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	71.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	62.0	°C	
1.8 MPa, Unannealed, 6.40 mm	165	°C	
Peak Melting Temperature	225	°C	ASTM D3418
RTI Elec	130	°C	UL 746

RTI Imp	130	°C	UL 746
RTI Str	140	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	20	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.550 mm	V-0		
0.710 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	3.0 to 5.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	230 to 235	°C	
Middle Temperature	235 to 245	°C	
Front Temperature	235 to 245	°C	
Nozzle Temperature	240 to 250	°C	
Processing (Melt) Temp	240 to 250	°C	
Mold Temperature	40.0 to 80.0	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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