

Sindustris PBT GP2101

Polybutylene Terephthalate

Sincerity Australia Pty Ltd.

Message:

Sindustris PBT GP2101 is a Polybutylene Terephthalate (PBT) material filled with 10% glass fiber. It is available in Asia Pacific for injection molding. Primary attribute of Sindustris PBT GP2101: Flame Rated.

Typical applications include:

Electrical/Electronic Applications

Automotive

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	General Purpose		
Uses	Automotive Applications		
	Connectors		
	Electrical/Electronic Applications		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.60 to 1.2	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	78.5	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	4220	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	127	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	34	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	185	°C	
1.8 MPa, Unannealed, 6.40 mm	210	°C	
Peak Melting Temperature	225	°C	ASTM D3418
RTI Elec	140	°C	UL 746
RTI Imp	120	°C	UL 746
RTI Str	140	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+18	ohms · cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	23	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.710 mm	HB		
1.50 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0 to 5.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	235 to 250	°C	
Middle Temperature	240 to 250	°C	
Front Temperature	245 to 255	°C	
Nozzle Temperature	245 to 255	°C	
Processing (Melt) Temp	245 to 255	°C	
Mold Temperature	60.0 to 100	°C	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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