

Sindustris PBT GP1001S

Polybutylene Terephthalate

Sincerity Australia Pty Ltd.

Message:

Sindustris PBT GP1001S is a Polybutylene Terephthalate (PBT) material. It is available in Asia Pacific for injection molding. Primary attribute of Sindustris PBT GP1001S: Flame Rated.
Typical applications include:
Automotive
Electrical/Electronic Applications

General Information			
Features	General Purpose		
Uses	Automotive Applications		
	Connectors		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	1.2 to 2.0	%	ASTM D955
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)	30	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2450	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	78.5	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	58.0	°C	
1.8 MPa, Unannealed, 6.40 mm	155	°C	
RTI Elec	140	°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+17	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	
3.30 mm	HB	
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.	2.8 mm/min	
4.	2.8 mm/min	

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