

Sindustris PBT HV1011

Polybutylene Terephthalate

Sincerity Australia Pty Ltd.

Message:

Sindustris PBT HV1011 is a Polybutylene Terephthalate (PBT) material. It is available in Asia Pacific for injection molding. Primary attribute of Sindustris PBT HV1011: Flame Rated.

Typical application of Sindustris PBT HV1011: Electrical/Electronic Applications

General Information			
Features	General Purpose		
Uses	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)	1.2 to 2.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	53.9	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)	83.4	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	57.0	°C	
1.8 MPa, Unannealed, 6.40 mm	154	°C	
Peak Melting Temperature	225	°C	ASTM D3418
RTI Elec	130	°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+19	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
0.810 mm	HB		
1.50 mm	HB		

3.00 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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