

Sindustris PBT SG5151

Polybutylene Terephthalate + PET

Sincerity Australia Pty Ltd.

Message:

Sindustris PBT SG5151 is a Polybutylene Terephthalate + PET (PBT+PET) material filled with 15% mineral. It is available in Asia Pacific for injection molding. Important attributes of Sindustris PBT SG5151 are:

- Flame Rated
- Good Aesthetics
- Typical applications include:
 - Automotive
 - Electrical/Electronic Applications

General Information			
Filler / Reinforcement	Mineral,15% Filler by Weight		
Features	Good Surface Finish		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40 to 1.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	93.2	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	4900	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	147	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	190	°C	
1.8 MPa, Unannealed, 6.40 mm	200	°C	
Peak Melting Temperature	225	°C	ASTM D3418
RTI Elec	75.0	°C	UL 746
RTI Imp	75.0	°C	UL 746
RTI Str	75.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	

Drying Time	4.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	245 to 255	°C
Middle Temperature	250 to 260	°C
Front Temperature	255 to 265	°C
Nozzle Temperature	255 to 265	°C
Processing (Melt) Temp	255 to 265	°C
Mold Temperature	80.0 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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Recommended distributors for this material

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