

Sindustris PBT SG5501

Polybutylene Terephthalate + PET

Sincerity Australia Pty Ltd.

Message:

Sindustris PBT SG5501 is a Polybutylene Terephthalate + PET (PBT+PET) material filled with 50% glass fiber. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris PBT SG5501 are:

Good Aesthetics

High Stiffness

Typical applications include:

Electrical/Electronic Applications

Automotive

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	Good Surface Finish		
	High Stiffness		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Switches		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.72	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	157	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	2.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	13700	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	235	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm)	205	°C	ASTM D648
Peak Melting Temperature	225	°C	ASTM D3418
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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