

Sindustris PBT SG3181S

Polybutylene Terephthalate + PET

Sincerity Australia Pty Ltd.

Message:

Sindustris PBT SG3181S is a Polybutylene Terephthalate + PET (PBT+PET) material filled with 18% mineral. It is available in Asia Pacific for injection molding. Primary attribute of Sindustris PBT SG3181S: Good Aesthetics.

Typical applications include:

Automotive

Handles

General Information			
Filler / Reinforcement	Mineral,18% Filler by Weight		
Features	Good Surface Finish		
Uses	Automotive Applications		
	Flexible Grips		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.70 to 1.5	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	53.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3630	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	90.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	30	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	190	°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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