

TUFBET® BGF 30 Natural/Black

Polybutylene Terephthalate

SRF Ltd.

Message:

TUFBET® BGF 30 Natural/Black is a Polybutylene Terephthalate (PBT) product filled with 30% glass fiber. It can be processed by injection molding and is available in Africa & Middle East. Applications of TUFBET® BGF 30 Natural/Black include electrical/electronic applications, automotive and appliances. Characteristics include:

- Chemical Resistant
- Good Aesthetics
- Good Mold Release
- Good Processability
- High Gloss

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Chemical Resistance		
	Good Electrical Properties		
	Good Mold Release		
	Good Processability		
	Good Surface Finish		
	High Gloss		
Uses	Appliance Components		
	Automotive Applications		
	Automotive Under the Hood		
	Bobbins		
	Connectors		
	Electrical Parts		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C, 3.00 mm)	0.20 to 0.50	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50%RH)	0.070	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	140	MPa	ASTM D638
Flexural Modulus (23°C)	8000	MPa	ASTM D790
Flexural Strength (23°C)	210	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	225	°C	
1.8 MPa, Unannealed	210	°C	
Melting Temperature	226	°C	ASTM D2117
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0	hr	
Rear Temperature	225	°C	
Middle Temperature	235	°C	
Front Temperature	240	°C	
Nozzle Temperature	240	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Pressure	108 to 147	MPa	

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