

TRIBOCOMP® PBT GF30 TS0

Polybutylene Terephthalate

EPIC Polymers

Message:

TRIBOCOMP®PBT GF30 TS0 is a polybutene terephthalate (PBT) product. The filler is 15% ptfe fiber and 30% glass fiber reinforced material. It is available in Europe.

General Information			
Filler / Reinforcement	PTFE fiber, 15% filler by weight		
	Glass fiber reinforced material, 30% filler by weight		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.40	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2
23°C	10500	MPa	ISO 527-2
90°C	5600	MPa	ISO 527-2
120°C	4500	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Fracture, 23°C	130	MPa	ISO 527-2
Fracture, 90°C	80.0	MPa	ISO 527-2
Fracture, 120°C	60.0	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus (23°C)	8100	MPa	ISO 178
Flexural Stress (23°C)	185	MPa	ISO 178
Coefficient of Friction			ASTM D3702
Dynamic	0.23		ASTM D3702
Static	0.18		ASTM D3702
Wear Factor	22.0		ASTM D3702
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	220	°C	ISO 75-2/B
1.8 MPa, not annealed	210	°C	ISO 75-2/A
CLTE - Flow (23°C)	2.9E-5	cm/cm/°C	ISO 7991

Thermal Conductivity	0.30	W/m/K	ISO 22007
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Dielectric Strength (2.00 mm)	29	kV/mm	IEC 60243-1
Comparative Tracking Index	325	V	IEC 60112

Additional Information

The value listed as Molding Shrinkage ISO 294-4, was tested in accordance with S.O.P. methods.

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	4.0	hr
Suggested Max Moisture	2.0E-3	%
Rear Temperature	220 - 240	°C
Middle Temperature	220 - 260	°C
Front Temperature	230 - 260	°C
Nozzle Temperature	240 - 270	°C
Processing (Melt) Temp	< 270	°C
Mold Temperature	70.0 - 120	°C

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