

TRIBOCOMP® PBT TS0

Polybutylene Terephthalate

EPIC Polymers

Message:

TRIBOCOMP®PBT TS0 is a polybutene terephthalate (PBT) product, which contains a filler of 20% ptfe fiber. It is available in Europe.

General Information			
Filler / Reinforcement	PTFE fiber, 20% filler by weight		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Molding Shrinkage - Flow	1.1	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2100	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	45.0	MPa	ISO 527-2
Tensile Strain (Break)	8.0	%	ISO 527-2
Flexural Modulus (23°C)	2100	MPa	ISO 178
Flexural Stress (23°C)	65.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702
Dynamic	0.19		ASTM D3702
Static	0.090		ASTM D3702
Wear Factor	18.0		ASTM D3702
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	30	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	170	°C	ISO 75-2/B
1.8 MPa, not annealed	70.0	°C	ISO 75-2/A
CLTE - Flow (23°C)	1.2E-4	cm/cm/°C	ISO 7991
Thermal Conductivity	0.28	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	600	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	0.020	%
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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