

TRIBOCOMP® PBT AF10 TS0

Polybutylene Terephthalate

EPIC Polymers

Message:

TRIBOCOMP® PBT AF10 TS0 is a Polybutylene Terephthalate (PBT) product filled with 10% aramid fiber and 15% ptfe fiber. It is available in Europe.

General Information			
Filler / Reinforcement	Aramid Fiber,10% Filler by Weight		
	PTFE Fiber,15% Filler by Weight		
Features	Low Friction		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm³	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)	4100	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	50.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	4.0	%	ISO 527-2
Flexural Modulus (23°C)	3800	MPa	ISO 178
Flexural Stress (23°C)	70.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702
vs. Itself - Dynamic	0.13		
vs. Itself - Static	0.12		
Wear Factor	11	10 ⁻⁸ mm³/N·m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	30	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	200	°C	ISO 75-2/B
1.8 MPa, Unannealed	150	°C	ISO 75-2/A
CLTE - Flow (23°C)	8.0E-5	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
Electric Strength	27	kV/mm	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	220 to 240	°C
Cylinder Zone 2 Temp.	220 to 260	°C
Cylinder Zone 3 Temp.	230 to 260	°C
Cylinder Zone 4 Temp.	240 to 270	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

