

TRIBOCOMP® PES TS0

Polyethersulfone

EPIC Polymers

Message:

TRIBOCOMP® PES TS0 is a Polyethersulfone (PESU) product filled with 15% ptfe fiber. It is available in Europe.

General Information			
Filler / Reinforcement	PTFE Fiber,15% Filler by Weight		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm³	ISO 1183
Molding Shrinkage - Flow	0.70	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.65	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2800	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield, 23°C	70.0	MPa	
Yield, 90°C	65.0	MPa	
Yield, 120°C	60.0	MPa	
Tensile Strain (Break, 23°C)	> 5.0	%	ISO 527-2
Flexural Modulus (23°C)	2600	MPa	ISO 178
Flexural Stress (23°C)	85.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702
vs. Itself - Dynamic	0.12		
vs. Itself - Static	0.10		
Wear Factor	40	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)	45	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	195	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
CLTE - Flow (23°C)	6.0E-5	cm/cm/°C	ISO 7991
Thermal Conductivity	0.16	W/m/K	ISO 22007
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Electric Strength	25	kV/mm	IEC 60243-1
Comparative Tracking Index	150	V	IEC 60112

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	350 to 370	°C
Cylinder Zone 2 Temp.	360 to 390	°C
Cylinder Zone 3 Temp.	370 to 390	°C
Cylinder Zone 4 Temp.	380 to 410	°C

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