

TRIBOCOMP® PC CF10 TS0

Polycarbonate
EPIC Polymers

Message:

TRIBOCOMP® PC CF10 TS0 is a Polycarbonate (PC) product filled with 10% carbon fiber and 15% ptfе fiber. It is available in Europe.

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
	PTFE Fiber,15% Filler by Weight		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm³	ISO 1183
Molding Shrinkage - Flow	0.25	%	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	7900	MPa	
90°C	6800	MPa	
120°C	5900	MPa	
Tensile Stress			ISO 527-2
Yield, 23°C	115	MPa	
Yield, 90°C	75.0	MPa	
Yield, 120°C	60.0	MPa	
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Flexural Modulus (23°C)	8100	MPa	ISO 178
Flexural Stress (23°C)	175	MPa	ISO 178
Coefficient of Friction			ASTM D3702
vs. Itself - Dynamic	0.25		
vs. Itself - Static	0.20		
Wear Factor	32	10 ⁻⁸ mm³/N·m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	35	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	140	°C	ISO 75-2/B
1.8 MPa, Unannealed	135	°C	ISO 75-2/A
CLTE - Flow (23°C)	2.8E-5	cm/cm/°C	ISO 7991

Thermal Conductivity	0.47	W/m/K	ISO 22007
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3	ohms	ASTM D257
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	260 to 300	°C	
Cylinder Zone 2 Temp.	270 to 320	°C	
Cylinder Zone 3 Temp.	275 to 320	°C	
Cylinder Zone 4 Temp.	275 to 320	°C	

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