

TRIBOCOMP® PA66 CF10 TS2

Polyamide 66

EPIC Polymers

Message:

TRIBOCOMP® PA66 CF10 TS2 is a Polyamide 66 (Nylon 66) product filled with 10% carbon fiber. It is available in Europe.

General Information			
Filler / Reinforcement	Carbon Fiber, 10% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.40	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2
23°C	8800	MPa	
90°C	3700	MPa	
120°C	3100	MPa	
Tensile Stress			ISO 527-2
Yield, 23°C	135	MPa	
Yield, 90°C	80.0	MPa	
Yield, 120°C	70.0	MPa	
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	7000	MPa	ISO 178
Flexural Stress (23°C)	190	MPa	ISO 178
Coefficient of Friction ¹			ASTM D3702
vs. Itself - Dynamic	0.10		
vs. Itself - Static	0.090		
Wear Factor (23°C)	7.00		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)	25	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	250	°C	ISO 75-2/B
1.8 MPa, Unannealed	245	°C	ISO 75-2/A
CLTE - Flow (23°C)	3.2E-5	cm/cm/°C	ISO 7991
Thermal Conductivity	0.43	W/m/K	ISO 22007
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4	ohms	ASTM D257

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	270 to 300	°C
Middle Temperature	275 to 295	°C
Front Temperature	280 to 295	°C
Nozzle Temperature	290 to 310	°C
Processing (Melt) Temp	< 300	°C
Mold Temperature	80.0 to 130	°C
NOTE		

1. 23°C

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