

TRIBOCOMP® PA66 GF30 TS7

Polyamide 66

EPIC Polymers

Message:

TRIBOCOMP® PA66 GF30 TS7 is a Polyamide 66 (Nylon 66) product filled with 30% glass fiber. It is available in Europe. Primary characteristic: lubricated.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		PTFE Lubricant (15%)		
		Silicone Lubricant (2%)		
Features		Low Friction		
		Lubricated		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.40	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.4	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
23°C	10000	7000	MPa	
90°C	6000	--	MPa	
120°C	500	--	MPa	
Tensile Stress				ISO 527-2
Yield, 23°C	170	125	MPa	
Yield, 90°C	95.0	--	MPa	
Yield, 120°C	85.0	--	MPa	
Tensile Strain (Break, 23°C)	3.0	6.0	%	ISO 527-2
Flexural Modulus (23°C)	8500	5800	MPa	ISO 178
Flexural Stress (23°C)	235	185	MPa	ISO 178
Coefficient of Friction ¹				ASTM D3702
vs. Itself - Dynamic	0.19	--		
vs. Itself - Static	0.17	--		
Wear Factor (23°C)	9.00	--		ASTM D3702

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	45	--	kJ/m ²	ISO 179

Thermal	Dry	Conditioned	Unit	Test Method
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Heat Deflection Temperature				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/A
CLTE - Flow (23°C)	3.0E-5	--	cm/cm/°C	ISO 7991
Thermal Conductivity	0.28	--	W/m/K	ISO 22007
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	--	ohms	ASTM D257
Electric Strength	36	32	kV/mm	IEC 60243-1
Comparative Tracking Index	500	500	V	IEC 60112
Injection	Dry	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	285 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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