

TRIBOCOMP® PPA GF30 TS0

Polyphthalamide
EPIC Polymers

Message:

TRIBOCOMP® PPA GF30 TS0 is a Polyphthalamide (PPA) 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%)		
Features		Lubricated		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.55	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.35	--	%	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	11300	11000	MPa	
90°C	10300	7700	MPa	
120°C	8800	4300	MPa	
Tensile Stress				ISO 527-2
Yield, 23°C	185	170	MPa	
Yield, 90°C	140	105	MPa	
Yield, 120°C	115	75.0	MPa	
Tensile Strain (Break, 23°C)	2.2	2.2	%	ISO 527-2
Flexural Modulus (23°C)	10500	10000	MPa	ISO 178
Flexural Stress (23°C)	265	255	MPa	ISO 178
Coefficient of Friction ¹				ASTM D3702
vs. Itself - Dynamic	0.22	--		
vs. Itself - Static	0.18	--		
Wear Factor (23°C)	23.0	--		ASTM D3702
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	50	--	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	300	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	285	--	°C	ISO 75-2/A

CLTE - Flow (23°C)	2.5E-5	--	cm/cm/°C	ISO 7991
Thermal Conductivity	0.30	--	W/m/K	ISO 22007
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	--	ohms	ASTM D257
Electric Strength	35	--	kV/mm	IEC 60243-1
Comparative Tracking Index	550	--	V	IEC 60112
Injection	Dry	Unit		
Drying Temperature	120		°C	
Drying Time	4.0		hr	
Suggested Max Moisture	0.080		%	
Rear Temperature	320 to 340		°C	
Middle Temperature	320 to 335		°C	
Front Temperature	320 to 335		°C	
Nozzle Temperature	325 to 340		°C	
Processing (Melt) Temp	< 340		°C	
Mold Temperature	135 to 165		°C	
NOTE				
1.	23°C			

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