

TRIBOCOMP® PPA CF30 TS0

Polyphthalamide
EPIC Polymers

Message:

TRIBOCOMP® PPA CF30 TS0 is a Polyphthalamide (PPA) product filled with 30% carbon fiber. It is available in Europe. Primary characteristic: lubricated.

General Information				
Filler / Reinforcement		Carbon Fiber,30% Filler by Weight		
Additive		PTFE Lubricant (15%)		
Features		Lubricated		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.43	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.20	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.1	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
23°C	23000	22500	MPa	
90°C	21000	--	MPa	
120°C	16500	--	MPa	
Tensile Stress				ISO 527-2
Yield, 23°C	220	210	MPa	
Yield, 90°C	195	--	MPa	
Yield, 120°C	150	--	MPa	
Tensile Strain (Break, 23°C)	2.0	2.0	%	ISO 527-2
Flexural Modulus (23°C)	22000	--	MPa	ISO 178
Flexural Stress (23°C)	335	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	40	--	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)	2.1E-5	--	cm/cm/°C	ISO 7991
Thermal Conductivity	0.52	--	W/m/K	ISO 22007
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+2	--	ohms	ASTM D257

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

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