

TRIBOCOMP® PPS CF30 TS0

Polyphenylene Sulfide

EPIC Polymers

Message:

TRIBOCOMP® PPS CF30 TS0 is a polyphenylene sulfide (PPS) product, which contains 15% ptfe fiber and 30% carbon fiber reinforced materials. It is available in Europe. The main characteristics are: lubrication.

General Information			
Filler / Reinforcement	PTFE fiber, 15% filler by weight		
	Carbon fiber reinforced material, 30% filler by weight		
Additive	PTFE lubricant (15%)		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.57	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.20	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.010	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	23500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	155	MPa	ISO 527-2
Tensile Strain (Break)	1.5	%	ISO 527-2
Flexural Modulus (23°C)	21000	MPa	ISO 178
Flexural Stress (23°C)	235	MPa	ISO 178
Coefficient of Friction			ASTM D3702
	Dynamic	0.17	ASTM D3702
	Static	0.15	ASTM D3702
Wear Factor	70.0	ASTM D3702	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	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, not annealed	275	°C	ISO 75-2/B
1.8 MPa, not annealed	260	°C	ISO 75-2/A
CLTE - Flow (23°C)	2.2E-5	cm/cm/°C	ISO 7991
Thermal Conductivity	0.58	W/m/K	ISO 22007
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2	ohms	ASTM D257
Additional Information			
The value listed as Molding Shrinkage ISO 294-4, was tested in accordance with S.O.P. methods.			

Injection	Nominal Value	Unit
Drying Temperature	150	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	340 - 360	°C
Middle Temperature	360 - 380	°C
Front Temperature	380 - 390	°C
Nozzle Temperature	380 - 390	°C
Mold Temperature	160 - 200	°C

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