

TRIBOCOMP® PC GF30 TS0

Polycarbonate

EPIC Polymers

Message:

TRIBOCOMP® PC GF30 TS0 is a polycarbonate (PC) product, which contains 15% ptfe fiber and 30% glass fiber reinforced materials. It is available in Europe. The main characteristics are: lubrication.

General Information			
Filler / Reinforcement	PTFE fiber, 15% filler by weight		
	Glass fiber reinforced material, 30% filler by weight		
Additive	PTFE lubricant (15%)		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.30	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2
23°C	9600	MPa	ISO 527-2
90°C	8700	MPa	ISO 527-2
120°C	8000	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Fracture, 23°C	115	MPa	ISO 527-2
Fracture, 90°C	80.0	MPa	ISO 527-2
Fracture, 120°C	65.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus (23°C)	8100	MPa	ISO 178
Flexural Stress (23°C)	175	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	140	°C	ISO 75-2/B
1.8 MPa, not annealed	135	°C	ISO 75-2/A
CLTE - Flow (23°C)	2.5E-5	cm/cm/°C	ISO 7991
Thermal Conductivity	0.29	W/m/K	ISO 22007
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257

Dielectric Strength (2.00 mm)	36	kV/mm	IEC 60243-1
Comparative Tracking Index	175	V	IEC 60112

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	120	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	260 - 300	°C
Middle Temperature	270 - 320	°C
Front Temperature	275 - 320	°C
Nozzle Temperature	275 - 320	°C
Processing (Melt) Temp	< 330	°C
Mold Temperature	90.0 - 120	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

