

TRIBOCOMP® PC GF20 TS0

Polycarbonate

EPIC Polymers

Message:

TRIBOCOMP® PC GF20 TS0 is a polycarbonate (PC) product, which contains 15% ptfe fiber and 20% 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, 20% filler by weight		
Additive	PTFE lubricant (15%)		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.35	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.090	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2
23°C	6800	MPa	ISO 527-2
90°C	6200	MPa	ISO 527-2
120°C	5500	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Fracture, 23°C	100	MPa	ISO 527-2
Fracture, 90°C	70.0	MPa	ISO 527-2
Fracture, 120°C	55.0	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus (23°C)	5800	MPa	ISO 178
Flexural Stress (23°C)	145	MPa	ISO 178
Coefficient of Friction			ASTM D3702
Dynamic	0.20		ASTM D3702
Static	0.18		ASTM D3702
Wear Factor	30.0		ASTM D3702
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	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)	3.6E-5	cm/cm/°C	ISO 7991
Thermal Conductivity	0.25	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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