TRIBOCOMP® PA6 GF40 TS5

Polyamide 6

EPIC Polymers

Message:

Tribosystem 5

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.56	g/cm³	ISO 1183
Molding Shrinkage - Flow	0.30	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.2	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-2
23°C	12000	MPa	ISO 527-2
90°C	5000	MPa	ISO 527-2
120°C	4500	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Fracture, 23°C	190	MPa	ISO 527-2
Fracture, 90°C	95.0	MPa	ISO 527-2
Fracture, 120°C	80.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus (23°C)	11000	MPa	ISO 178
Flexural Stress (23°C)	250	MPa	ISO 178
Coefficient of Friction			ASTM D3702
Dynamic	0.21		ASTM D3702
Static	0.19		ASTM D3702
Wear Factor	10.0		ASTM D3702
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	15	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	80	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	220	°C	ISO 75-2/B
1.8 MPa, not annealed	215	°C	ISO 75-2/A
CLTE - Flow (23°C)	2.8E-5	cm/cm/°C	ISO 7991
Thermal Conductivity	0.31	W/m/K	ISO 22007
Electrical	**Nominal Value**	**Unit**	**Test Method**

Surface Resistivity	1.0E+12	ohms	ASTM D257
Dielectric Strength (2.00 mm)	36	kV/mm	IEC 60243-1
Comparative Tracking Index	500	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	80.0	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	230 - 270	°C
Middle Temperature	235 - 280	°C
Front Temperature	235 - 280	°C
Nozzle Temperature	235 - 290	°C
Processing (Melt) Temp	< 320	°C
Mold Temperature	80.0 - 120	°C

Recommended distributors for this material

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