Tribocomp® PA66 LGF30 PTFE18 N6

Polyamide 66

Solvay Specialty Polymers

Message:

Tribocomp® PA66 LGF30 TS0 S8, is a 30% long glass fiber reinforced black high-flow PA 66 with a pellet length of 8mm and contains 15% PTFE having excellent tribological performance. It can easily be processed on most injection molding machines.

General Information			
Filler / Reinforcement	PTFE fiber, 15% filler by weight Long glass fiber, 30% filler by weight		
Appearance	Black		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.53	g/cm³	ISO 1183
shrinkage-Flow	0.40	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.4	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	10500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	195	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	8300	MPa	ISO 178
Flexural Stress (23°C)	260	MPa	ISO 178
Coefficient of Friction			ASTM D3702
Dynamic	0.23		ASTM D3702
Static	0.18		ASTM D3702
Wear Factor	13.0		ASTM D3702
Coefficient of Linear Thermal Expansion	2.9E-5	cm/cm/°C	ISO 11359-2
Surface Resistivity	1.0E+13	ohms/sq	ASTM D257
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	19	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	65	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	255	°C	ISO 75-2/B
1.8 MPa, not annealed	253	°C	ISO 75-2/A
Thermal Conductivity	0.29	W/m/K	ISO 22007
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength (2.00 mm)	35	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	100	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	270 - 300	°C
Middle Temperature	270 - 300	°C
Front Temperature	285 - 300	°C
Nozzle Temperature	285 - 310	°C
Processing (Melt) Temp	< 300	°C
Mold Temperature	80 - 140	°C

Injection instructions

Pre-drying -- Since polyamides are hygroscopic materials as well as sensitive to moisture during processing, this product should always be pre-dried.Regrind -- Regrind of highly filled thermoplastic materials, such as this material, should only be recycled with special care. The regrind content must never exceed 15%, and only regrind of optimum quality should be used. In any case, part properties should be checked.

Recommended distributors for this material

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