

Tribocomp® PA66 LGF30 PTFE18 N6 polyamide 66

Tribocomp® PA66 PA66 LGF30 PTFE18 N6, is a 30% long glass fiber reinforced, high-flow PA66 compound containing 18% PTFE and having

excellent tribological performance. It can easily be processed on most injection molding machines.

General

Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific • Europe	• Latin America • North America
Filler / Reinforcement	• Long Glass Fiber, 30% Filler by Weight	• PTFE, 18% Filler by Weight
Features	• Abrasion Resistant • Heat Stabilized • High Flow	• High Friction • High Temperature Strength • Low Shrinkage
Uses	• Automotive Applications • Automotive Under the Hood • Engineering Parts	• Gears • Industrial Applications • Power/Other Tools
RoHS Compliance	• RoHS Compliant	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Compression Molding	• Injection Molding

Physical	Dry	Conditioned	Unit	Test method
Density	1.53	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.40	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.4	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test method
Tensile Modulus				ISO 527-1
23°C	10600	7800	MPa	
90°C	6400	--	MPa	
Tensile Stress				ISO 527-2
Break, 23°C	195	140	MPa	
Break, 90°C	120	--	MPa	
Tensile Strain (Break, 23°C)	2.8	2.8	%	ISO 527-2
Flexural Modulus (23°C)	10000	--	MPa	ISO 178
Flexural Stress (23°C)	280	--	MPa	ISO 178
Coefficient of Friction				ASTM D3702
Dynamic	0.23	--		
Static	0.18	--		

Tribocomp® PA66 LGF30 PTFE18 N6

polyamide 66

Mechanical	Dry	Conditioned	Unit	Test method
Wear Factor	13.0	--		ASTM D3702

Impact	Dry	Conditioned	Unit	Test method
Charpy Notched Impact Strength (23°C)	25	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	80	--	kJ/m ²	ISO 179

Thermal	Dry	Conditioned	Unit	Test method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	262	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	258	--	°C	ISO 75-2/A
Thermal Conductivity	0.29	--	W/m/K	ISO 22007
Coefficient of Linear Thermal Expansion	2.9E-5	--	cm/cm/°C	ISO 11359-2

Electrical	Dry	Conditioned	Unit	Test method
Electric Strength (2.00 mm)	35	--	kV/mm	IEC 60243-1
Comparative Tracking Index	500	--	V	IEC 60112
Surface Resistivity	1.0E+12	--	ohms/sq	ASTM D257

Additional Information

Dry	The value listed as Molding Shrinkage ISO 294-4, was tested in accordance with S.O.P. methods.
-----	--

Injection	Dry	Unit
Drying Temperature	80 to 100	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	290 to 300	°C
Middle Temperature	300	°C
Front Temperature	300	°C
Nozzle Temperature	300	°C
Processing (Melt) Temp	< 300	°C
Mold Temperature	80 to 120	°C

Injection Notes

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.

Tribocomp® PA66 LGF30 PTFE18 N6 polyamide 66

Notes

Typical properties: these are not to be construed as specifications.



www.syensqo.com

Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

Neither Syensqo nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this product, related information or its use. Some applications of which Syensqo's products may be proposed to be used are regulated or restricted by applicable laws and regulations or by national or international standards and in some cases by Syensqo's recommendation, including applications of food/feed, water treatment, medical, pharmaceuticals, and personal care. Only products designated as part of the Solviva® family of biomaterials may be considered as candidates for use in implantable medical devices. The user alone must finally determine suitability of any information or products for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infringed. The information and the products are for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right.

All trademarks and registered trademarks are property of the companies that comprise the Syensqo or their respective owners.

© 2024 2023 Syensqo. All rights reserved.