

# Tribocomp<sup>®</sup> 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	Companyatistic Aptive		
Material Status	Commercial: Active		
Availability	Africa & Middle East     Asia Dasifie	• Latin America	
	<ul><li>Asia Pacific</li><li>Europe</li></ul>	<ul> <li>North America</li> </ul>	
Filler / Reinforcement	Long Glass Fiber, 30% Filler by Weight	• PTFE, 18% Filler by Weight	
Features	<ul> <li>Abrasion Resistant</li> <li>Heat Stabilized</li> <li>High Flow</li> </ul>	<ul> <li>High Friction</li> <li>High Temperature Strength</li> <li>Low Shrinkage</li> </ul>	
Uses	<ul> <li>Automotive Applications</li> <li>Automotive Under the Hood</li> <li>Engineering Parts</li> </ul>	<ul> <li>Gears</li> <li>Industrial Applications</li> <li>Power/Other Tools</li> </ul>	
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Compression Molding	<ul> <li>Injection Molding</li> </ul>	
Physical	Dry	Conditioned Unit	Test method
Density	1.53	g/cm³	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		

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/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	80	kJ/m²	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/ºC	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.

## Notes

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

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