

# Tribocomp® PA66 LGF30 PTFE18 N6 polyamide 66

Tribocomp® PA66 PA66 LGF30 PTFE18 N6, is a 30% long glass fiber reinforced, high-flow PA66 with a pellet length of 8mm and 18% PTFE 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 Fiber, 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
Appearance	• Natural Color	
Forms	• Pellets	

## Physical

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

## Mechanical

	Typical 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		
Static	0.18		
Wear Factor	13.0		ASTM D3702

## Impact

	Typical Value	Unit	Test method
Charpy Notched Impact Strength (23°C)	19	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength (23°C)	65	kJ/m <sup>2</sup>	ISO 179

## Thermal

	Typical Value	Unit	Test method
Heat Deflection Temperature			
0.45 MPa, Unannealed	255	°C	ISO 75-2/B
1.8 MPa, Unannealed	253	°C	ISO 75-2/A
Thermal Conductivity	0.29	W/m/K	ISO 22007

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Thermal	Typical Value	Unit	Test method
Coefficient of Linear Thermal Expansion	2.9E-5	cm/cm/°C	ISO 11359-2

Electrical	Typical Value	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

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

Injection	Typical Value	Unit
Drying Temperature	100	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	270 to 300	°C
Middle Temperature	270 to 300	°C
Front Temperature	285 to 300	°C
Nozzle Temperature	285 to 310	°C
Processing (Melt) Temp	< 300	°C
Mold Temperature	80 to 140	°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.



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.

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