

Tribocomp® PA66 LGF35 S9 MoS2 polyamide 66

Tribocomp® PA66 LGF35 S9 MoS2 is a 35% long glass fiber reinforced high-flow PA66 with a pellet length of 9mm

and MoS2. 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, 35% Filler by Weight		
Features	• Abrasion Resistant • Heat Stabilized • High Flow	• High Temperature Strength • Low Shrinkage • Medium Friction	
Uses	• Automotive Applications • Automotive Under the Hood • Engineering Parts	• Gears • Industrial Applications • Power/Other Tools	
Appearance	• Black		
Forms	• Pellets		

Physical	Dry	Conditioned	Unit	Test method
Density	1.44	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.30	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.4	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test method
Tensile Modulus				ISO 527-2
23°C	12200	9300	MPa	
90°C	8200	--	MPa	
120°C	7200	--	MPa	
Tensile Stress				ISO 527-2
Yield, 23°C	215	175	MPa	
Yield, 90°C	145	--	MPa	
Yield, 120°C	125	--	MPa	
Tensile Strain (Break)	3.0	--	%	ISO 527-2
Flexural Modulus (23°C)	11500	--	MPa	ISO 178
Flexural Stress (23°C)	340	--	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test method
Charpy Notched Impact Strength (23°C)	25	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	70	--	kJ/m ²	ISO 179

Thermal	Dry	Conditioned	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

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Thermal	Dry	Conditioned	Unit	Test method
Thermal Conductivity	0.31	--	W/m/K	ISO 22007
Coefficient of Linear Thermal Expansion	2.5	--	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

Injection	Dry	Unit
Drying Temperature	100	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.10	%
Suggested Max Regrind	15	%
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 160	°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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