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/cm³	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/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	70	--	kJ/m²	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

Tribocomp® PA66 LGF35 S9 MoS2
polyamide 66

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.

SOLVAY
asking more from chemistry®