

SABIC Innovative Plastics LNP LUBRICOMP GFL36L PSU

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

LNP* Lubricomp* GFL36L is a compound based on Polysulfone resin containing 30% Glass Fiber, 15% PTFE. Added features of this material include: Internally Lubricated, Low Extractible.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-GFL36L-PSU.php

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/in ³	ASTM D792
	1.62 g/cc	0.0585 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0026 cm/cm	0.0026 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0051 cm/cm	0.0051 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	87.0 MPa	12600 psi	ISO 527
	88.0 MPa	12800 psi	ASTM D638
Tensile Strength, Yield	87.0 MPa	12600 psi	ISO 527
	88.0 MPa	12800 psi	ASTM D638
Elongation at Break	1.2 %	1.2 %	ISO 527
	1.3 %	1.3 %	ASTM D638
Elongation at Yield	1.3 %	1.3 %	ASTM D638
	1.3 %	1.3 %	ISO 527
Tensile Modulus	9.33 GPa	1350 ksi	1 mm/min; ISO 527

Mechanical Properties	10.34 GPa Metric	1500 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	110 MPa	16000 psi	ASTM D790
	121 MPa	17500 psi	ISO 178
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
	9.00 GPa	1310 ksi	ISO 178
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.41 J/cm	6.39 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	23.0 kJ/m ²	10.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J	10.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.42	0.42	ASTM D3702 Modified
Coefficient of Friction, Static	0.62	0.62	ASTM D3702 Modified
K (wear) Factor	88.6 x 10 ⁻⁸ mm ³ /N-M	44.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C	16.7 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	30.6 µm/m-°C	17.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	24.0 µm/m-°C	13.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	25.2 µm/m-°C	14.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	186 °C	367 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	185 °C	365 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties T _g at 1.8 MPa (264 psi)	Metric	English	Comments
	180 °C	356 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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