

SABIC Innovative Plastics LNP LUBRICOMP GL003 PSU

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

LNP* Lubricomp* GL003 is a compound based on Polysulfone resin containing 15% PTFE. Added features of this material include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-GL003-PSU.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0076 cm/cm	0.0076 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0083 cm/cm	0.0083 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	ASTM D638
	55.0 MPa	7980 psi	ISO 527
Elongation at Break	9.9 %	9.9 %	ASTM D638
	11.8 %	11.8 %	ISO 527
Flexural Strength	75.0 MPa	10900 psi	ASTM D790
	79.0 MPa	11500 psi	ISO 178
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
	2.30 GPa	334 ksi	ISO 178
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	8.91 J/cm Metric	16.7 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	54.0 kJ/m ²	25.7 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.23	0.23	ASTM D3702 Modified
Coefficient of Friction, Static	0.12	0.12	ASTM D3702 Modified
K (wear) Factor	48.3 x 10 ⁻⁸ mm ³ /N-M	24.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	179 Â°C	354 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	169 Â°C	336 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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