

SABIC Innovative Plastics LNP Lubricomp GL004 PSU

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

LNP* Lubricomp* GL004 is a compound based on Polysulfone resin containing PTFE. Added features of this material include: Internally Lubricated. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-GL004-PSU.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ASTM D 792
	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0077 cm/cm	0.0077 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0082 cm/cm	0.0082 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	ISO 527
	49.0 MPa	7110 psi	ASTM D 638
Tensile Strength, Yield	48.0 MPa	6960 psi	ISO 527
	50.0 MPa	7250 psi	ASTM D 638
Elongation at Break	5.8 %	5.8 %	ASTM D 638
	6.3 %	6.3 %	ISO 527
Elongation at Yield	4.7 %	4.7 %	ASTM D 638
	4.8 %	4.8 %	ISO 527
Tensile Modulus	1.86 GPa	270 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 2.00 GPa	English 290 ksi	Comments 50 mm/min; ASTM D 638
Flexural Strength	71.0 MPa	10300 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
	2.06 GPa	299 ksi	ASTM D 790
Izod Impact, Notched	0.850 J/cm @Temperature 23.0 °C	1.59 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	5.76 J/cm @Temperature 23.0 °C	10.8 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	38.0 kJ/m ² @Temperature 23.0 °C	18.1 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603
	13.0 J @Temperature 23.0 °C	9.59 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763
Coefficient of Friction, Dynamic	0.23	0.23	ASTM D 3702 Modified
Coefficient of Friction, Static	0.10	0.10	ASTM D 3702 Modified
K (wear) Factor	44.3 x 10 ⁻⁸ mm ³ /N-M	22.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	61.0 µm/m-°C @Temperature -40.0 - 40.0 °C	33.9 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
	61.2 µm/m-°C @Temperature -40.0 - 40.0 °C	34.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	59.4 µm/m-°C @Temperature -40.0 - 40.0 °C	33.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	60.0 µm/m-°C @Temperature -40.0 - 40.0 °C	33.3 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	177 °C	351 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	167 °C	333 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	162 °C	324 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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