

SABIC Innovative Plastics LNP Lubricomp GFL14 PSU

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

LNP* Lubricomp* GFL14 is a compound based on Polysulfone containing Glass Fiber and PTFE Lubricant. 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-GFL14-PSU.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
	1.44 g/cc	0.0520 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.29 %	0.29 %	23Â°C / 50% RH; ISO 62
	0.18 % @Time 86400 sec	0.18 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Time 86400 sec	0.0040 - 0.0060 in/in @Time 24.0 hour	ASTM D 955
	0.0060 - 0.0080 cm/cm @Time 86400 sec	0.0060 - 0.0080 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	Type I, 5 mm/min; ASTM D 638
	95.0 MPa	13800 psi	5 mm/min; ISO 527
Tensile Strength, Yield	98.0 MPa	14200 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	2.2 %	2.2 %	5 mm/min; ISO 527
	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	6.82 GPa	989 ksi	1 mm/min; ISO 527
	6.91 GPa	1000 ksi	50 mm/min; ASTM D 638
Flexural Strength	146 MPa	21200 psi	ISO 178
	151 MPa	21900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	6.20 GPa	899 ksi	2 mm/min; ISO 178
	6.60 GPa	957 ksi	1.3 mm/min, 50 mm span; ASTM D

Mechanical Properties	Metric	English	790 Comments
Izod Impact, Notched	0.720 J/cm @Temperature 23.0 Â°C	1.35 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	5.05 J/cm @Temperature 23.0 Â°C	9.46 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature 23.0 Â°C	2.86 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/mÂ² @Temperature 23.0 Â°C	14.3 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
	14.0 J @Temperature 23.0 Â°C	10.3 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763
Coefficient of Friction, Dynamic	0.48	0.48	ASTM D 3702 Modified
Coefficient of Friction, Static	0.62	0.62	ASTM D 3702 Modified
K (wear) Factor	46.3 x 10 ⁻⁸ mmÂ³/N-M	23.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Ring; ASTM D 3702 Modified
	266 x 10 ⁻⁸ mmÂ³/N-M	132 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.3 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	16.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	46.3 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	25.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	185 Â°C	365 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	185 Â°C @Thickness 3.20 mm	365 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	180 Â°C	356 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	181 Å°C Metric	358 Å°F English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	Unannealed; ASTM D 648

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