

SABIC Innovative Plastics LNP LUBRICOMP JFL34 PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP* LUBRICOMP* JFL34 is a compound based on Polyethersulfone resin containing 20% Glass Fiber, 15% PTFE. Added feature of this grade is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-JFL34-PES.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.61 g/cc	1.61 g/cc	ASTM D792
Density	1.61 g/cc	0.0582 lb/in ³	ISO 1183
Moisture Absorption	0.350 %	0.350 %	50% RH, 24 hrs; ASTM D570
	0.520 %	0.520 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	94.0 MPa	13600 psi	5 mm/min; ISO 527
	97.0 MPa	14100 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	103 MPa	14900 psi	5 mm/min; ISO 527
	104 MPa	15100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.5 %	2.5 %	5 mm/min; ISO 527
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.5 %	2.5 %	5 mm/min; ISO 527
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	7.03 GPa	1020 ksi	1 mm/min; ISO 527
	7.07 GPa	1030 ksi	50 mm/min; ASTM D638
Flexural Strength	146 MPa	21200 psi	1.3 mm/min, 50 mm span; ASTM D790
	147 MPa	21300 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	147 MPa	21300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.02 GPa	873 ksi	1.3 mm/min, 50 mm span; ASTM D790
	6.30 GPa	914 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.730 J/cm	1.37 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.38 J/cm	10.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	32.0 kJ/m ²	15.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J @Temperature 23.0 Â°C	10.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.46	0.46	ASTM D3702 Modified
Coefficient of Friction, Static	0.63	0.63	ASTM D3702 Modified
K (wear) Factor	14.1 x 10 ⁻⁸ mm ³ /N-M	7.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Ring; ASTM D3702 Modified
	117 x 10 ⁻⁸ mm ³ /N-M	58.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	17.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	41.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	22.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	219 Â°C @Thickness 3.20 mm	426 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	212 Â°C	414 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	212 Â°C @Thickness 3.20 mm	414 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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