

SABIC Innovative Plastics LNP LUBRICOMP JFL36 PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP LUBRICOMP* JFL36 is a compound based on Polyethersulfone resin containing 30% Glass Fiber, 15% PTFE. Added features of this material is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-JFL36-PES.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ISO 1183
	1.70 g/cc	0.0614 lb/in ³	ASTM D792
Moisture Absorption	0.290 %	0.290 %	50% RH, 24 hrs; ASTM D570
	0.500 %	0.500 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	89.0 MPa	12900 psi	ISO 527
	128 MPa	18600 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ISO 527
	1.9 %	1.9 %	ASTM D638
Tensile Modulus	9.54 GPa	1380 ksi	1 mm/min; ISO 527
	10.18 GPa	1476 ksi	50 mm/min; ASTM D638
Flexural Strength	138 MPa	20000 psi	ISO 178
	179 MPa	26000 psi	ASTM D790

Flexural Modulus Mechanical Properties	9.92 GPa Metric	1440 ksi English	ASTM D790 Comments
	10.84 GPa	1572 ksi	ISO 178
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.63 J/cm	6.80 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	24.0 kJ/m ²	11.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.46	0.46	ASTM D3702 Modified
Coefficient of Friction, Static	0.36	0.36	ASTM D3702 Modified
K (wear) Factor	121 x 10 ⁻⁸ mm ³ /N-M	60.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.8 Âµm/m-Â°C	12.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	22.8 Âµm/m-Â°C	12.7 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	35.2 Âµm/m-Â°C	19.6 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	35.2 Âµm/m-Â°C	19.6 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	207 Â°C	405 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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