

SABIC Innovative Plastics LNP LUBRICOMP JX91198 PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP LUBRICOMP* JX91198 is a compound based on Polyethersulfone resin containing Proprietary Filler(s). Added feature of this material is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-JX91198-PES.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Moisture Absorption	0.410 %	0.410 %	50% RH, 24 hrs; ASTM D570
	0.530 %	0.530 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0017 cm/cm	0.0017 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0041 cm/cm	0.0041 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	112 MPa	16200 psi	ISO 527
	116 MPa	16800 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ISO 527
	1.9 %	1.9 %	ASTM D638
Tensile Modulus	9.20 GPa	1330 ksi	1 mm/min; ISO 527
	10.13 GPa	1469 ksi	50 mm/min; ASTM D638
Flexural Strength	161 MPa	23400 psi	ISO 178
	169 MPa	24500 psi	ASTM D790

Flexural Modulus Mechanical Properties	8.82 GPa Metric	1280 ksi English	ASTM D790 Comments
	9.23 GPa	1340 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.31 J/cm	6.20 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)	26.0 kJ/m ²	12.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J	2.95 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	0.43	0.43	ASTM D3702 Modified
Coefficient of Friction, Static	0.34	0.34	ASTM D3702 Modified
K (wear) Factor	8.06 x 10 ⁻⁸ mm ³ /N-M	4.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	228 Â°C	442 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	211 Â°C	412 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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