

SABIC Innovative Plastics LNP Lubricomp JL003 PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP* Lubricomp* JL003 is a compound based on Polyethersulfone resin containing PTFE. 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-JL003-PES.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D 792
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.79 %	0.79 %	23Â°C / 50% RH; ISO 62
	0.47 %	0.47 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	5 mm/min; ISO 527
	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	60.0 MPa	8700 psi	5 mm/min; ISO 527
	62.0 MPa	8990 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	10.3 %	10.3 %	Type I, 5 mm/min; ASTM D 638
	11.2 %	11.2 %	5 mm/min; ISO 527
Elongation at Yield	5.9 %	5.9 %	Type I, 5 mm/min; ASTM D 638
	5.9 %	5.9 %	5 mm/min; ISO 527
Tensile Modulus	2.16 GPa	313 ksi	1 mm/min; ISO 527
	2.25 GPa	326 ksi	50 mm/min; ASTM D 638
Flexural Strength	80.0 MPa	11600 psi	ISO 178

Flexural Modulus Mechanical Properties	2.21 GPa Metric	321 ksi English	2 mm/min* ISO 178 Comments
	2.34 GPa	339 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.560 J/cm @Temperature 23.0 Â°C	1.05 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	10.6 J/cm @Temperature 23.0 Â°C	19.9 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Unnotched (ISO)	68.0 kJ/mÂ² @Temperature 23.0 Â°C	32.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763
Coefficient of Friction, Dynamic	0.23	0.23	ASTM D 3702 Modified
Coefficient of Friction, Static	0.12	0.12	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	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	214 Â°C	417 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	218 Â°C @Thickness 3.20 mm	424 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	199 Â°C	390 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	203 Â°C @Thickness 3.20 mm	397 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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