

SABIC Innovative Plastics LNP LUBRILOY Z2000 PPO

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

LNP* LUBRILOY* Z2000 is a compound based on PPO resin containing Proprietary Lubricant. Added feature of this material is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-Z2000-PPO.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Moisture Absorption	0.0600 %	0.0600 %	50% RH, 24 hrs; ASTM D570
	0.0700 %	0.0700 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0089 cm/cm	0.0089 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0089 cm/cm	0.0089 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0115 cm/cm	0.0115 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0115 cm/cm	0.0115 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	ISO 527
	42.0 MPa	6090 psi	ASTM D638
Tensile Strength, Yield	38.0 MPa	5510 psi	ISO 527
	46.0 MPa	6670 psi	ASTM D638
Elongation at Break	37.3 %	37.3 %	ISO 527
	52.3 %	52.3 %	ASTM D638
Elongation at Yield	3.2 %	3.2 %	ISO 527
	4.2 %	4.2 %	ASTM D638

Tensile Modulus Mechanical Properties	1.81 GPa Metric	263 ksi English	1 mm/min; ISO 527 Comments
	1.82 GPa	264 ksi	50 mm/min; ASTM D638
Flexural Strength	58.0 MPa	8410 psi	ISO 178
	74.0 MPa	10700 psi	ASTM D790
Flexural Modulus	1.86 GPa	270 ksi	ISO 178
	2.08 GPa	302 ksi	ASTM D790
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	20.34 J/cm	38.11 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	172 kJ/m ²	81.8 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.19	0.19	ASTM D3702 Modified
Coefficient of Friction, Static	0.24	0.24	ASTM D3702 Modified
K (wear) Factor	244 x 10 ⁻⁸ mm ³ /N-M	121 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	81.9 Åµm/m-Å°C	45.5 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	82.0 Åµm/m-Å°C	45.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	88.9 Åµm/m-Å°C	49.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	89.0 Åµm/m-Å°C	49.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	138 Å°C	280 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	140 Å°C	284 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	120 Å°C	248 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed, ASTM D648

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