

SABIC Innovative Plastics LNP Lubriloy Z2000 PPE+PS

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

LNP* Lubriloy* Z2000 is a compound based on PPE+PS Blend resin containing Proprietary Lubricant. Added features of this material include: Internally Lubricated. 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-Lubriloy-Z2000-PPEPS.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D 792
	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.070 %	0.070 %	23°C / 50% RH; ISO 62
	0.060 % @Time 86400 sec	0.060 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0089 cm/cm	0.0089 in/in	ASTM D 955
	@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 D 955
	@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 D 638
Tensile Strength, Yield	38.0 MPa	5510 psi	ISO 527
	46.0 MPa	6670 psi	ASTM D 638
Elongation at Break	37.3 %	37.3 %	ISO 527
	52.3 %	52.3 %	ASTM D 638
Elongation at Yield	3.2 %	3.2 %	ISO 527
	4.2 %	4.2 %	ASTM D 638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	1.81 GPa	263 ksi	1 mm/min; ISO 527
	1.82 GPa	264 ksi	50 mm/min; ASTM D 638
Flexural Strength	58.0 MPa	8410 psi	ISO 178
	74.0 MPa	10700 psi	ASTM D 790
Flexural Modulus	1.86 GPa	270 ksi	ISO 178
	2.08 GPa	302 ksi	ASTM D 790
Izod Impact, Notched	1.06 J/cm @Temperature 23.0 Â°C	1.99 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	20.34 J/cm @Temperature 23.0 Â°C	38.11 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	11.0 kJ/mÂ² @Temperature 23.0 Â°C	5.23 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	172 kJ/mÂ² @Temperature 23.0 Â°C	81.8 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.19	0.19	ASTM D 3702 Modified
Coefficient of Friction, Static	0.24	0.24	ASTM D 3702 Modified
K (wear) Factor	244 x 10 ⁻⁸ mmÂ³/N-M	121 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	81.9 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	45.5 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	82.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	45.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	88.9 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	49.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	89.0 Âµm/m-Â°C	49.4 Âµin/in-Â°F	

Thermal Properties	Metric @Temperature -40.0 - 40.0 Â°C	English @Temperature -40.0 - 104 Â°F	ISO 11359-2 Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 Â°C	280 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	140 Â°C @Thickness 3.20 mm	284 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	120 Â°C	248 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	121 Â°C @Thickness 3.20 mm	250 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China