

SABIC Innovative Plastics LNP LUBRILOY D20001 PPO

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

LNP* LUBRILOY* Z20001 is a compound based on PPO resin containing Proprietary Lubricant. Added features of this material include:
Wear Resistant, Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-D20001-PPO.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
Moisture Absorption	0.120 %	0.120 %	50% RH, 24 hrs; ASTM D570
	0.220 %	0.220 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm @Time 86400 sec	0.0080 - 0.010 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	Type I, 5 mm/min; ASTM D638
	49.0 MPa	7110 psi	5 mm/min; ISO 527
Tensile Strength, Yield	57.0 MPa	8270 psi	Type I, 5 mm/min; ASTM D638
	58.0 MPa	8410 psi	5 mm/min; ISO 527
Elongation at Break	24 %	24 %	5 mm/min; ISO 527
	40 %	40 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
	5.0 %	5.0 %	5 mm/min; ISO 527
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min; ISO 527
	2.12 GPa	307 ksi	5 mm/min; ASTM D638
Flexural Strength	74.0 MPa	10700 psi	ISO 178
Flexural Modulus	1.92 GPa	278 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	4.19 J/cm	7.85 ft-lb/in	ASTM D256
Izod Impact, Unnotched	21.1 J/cm	39.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	31.0 kJ/mÂ²	14.8 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	210 kJ/mÂ²	99.9 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	46.0 J @Temperature 23.0 Â°C	33.9 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	45.0 J	33.2 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.27	0.27	ASTM D3702 Modified
Coefficient of Friction, Static	0.19	0.19	ASTM D3702 Modified
K (wear) Factor	109 x 10 ⁻⁸ mmÂ³/N-M	54.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	87.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	48.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	98.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	54.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	116 Â°C	241 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	120 Â°C @Thickness 3.20 mm	248 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	99.0 Â°C	210 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	105 Â°C @Thickness 3.20 mm	221 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94

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