

SABIC Innovative Plastics LNP LUBRICOMP ZP001XXP PPE+PS

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

Material Notes:

LNP* LUBRICOMP* ZP001XXP is a compound based on PPE+PS resin containing 5% PTFE/Silicone. Added features of this material include: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-ZP001XXP-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Density	1.06 g/cc	0.0383 lb/in ³	ASTM D792
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
	0.150 %	0.150 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Time 86400 sec	0.0060 - 0.0080 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm @Time 86400 sec	0.0080 - 0.010 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	5 mm/min; ISO 527
	49.0 MPa	7110 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	45.0 MPa	6530 psi	5 mm/min; ISO 527
	49.0 MPa	7110 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	30 %	30 %	Type I, 5 mm/min; ASTM D638
	31 %	31 %	5 mm/min; ISO 527
Elongation at Yield	3.2 %	3.2 %	5 mm/min; ISO 527
	3.3 %	3.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.20 GPa	319 ksi	1 mm/min; ISO 527
	2.39 GPa	347 ksi	50 mm/min; ASTM D638
Flexural Strength	73.0 MPa	10600 psi	ISO 178
Flexural Modulus	2.29 GPa	332 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	1.41 J/cm	2.64 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.4 J/cm	19.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/mÂ²	6.19 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	59.0 kJ/mÂ²	28.1 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	18.0 J @Temperature 23.0 Â°C	13.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.30	0.30	ASTM D3702 Modified
Coefficient of Friction, Static	0.27	0.27	ASTM D3702 Modified
K (wear) Factor	548 x 10 ⁻⁸ mmÂ³/N-M	272 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	78.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	43.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	78.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	43.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	129 Â°C	264 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	130 Â°C @Thickness 3.20 mm	266 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	116 Â°C	241 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	118 Â°C @Thickness 3.20 mm	244 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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