

SABIC Innovative Plastics LNP LUBRICOMP ZX07421 PPO

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

LN:* LUBRICOMP* ZX07421 is a compound based on PPO resin containing proprietary fillers. Added feature of this grade is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-ZX07421-PPO.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Density	1.196 g/cc	0.04321 lb/in ³	ASTM D792
Moisture Absorption	0.0600 %	0.0600 %	50% RH, 24 hrs; ASTM D570
	0.210 %	0.210 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.020 cm/cm	0.0090 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	Type I, 5 mm/min; ASTM D638
	48.0 MPa	6960 psi	5 mm/min; ISO 527
Elongation at Break	16.3 %	16.3 %	5 mm/min; ISO 527
	16.5 %	16.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	12.3 %	12.3 %	5 mm/min; ISO 527
	13.7 %	13.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.38 GPa	345 ksi	1 mm/min; ISO 527
	2.49 GPa	361 ksi	5 mm/min; ASTM D638
Flexural Strength	76.0 MPa	11000 psi	ISO 178
Flexural Modulus	2.34 GPa	339 ksi	2 mm/min; ISO 178
	2.54 GPa	368 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.520 J/cm	0.974 ft-lb/in	ASTM D256

Mechanical Properties <i>Izod Impact, Unnotched</i>	Metric <i>3.37 J/cm</i>	English <i>5.31 ft-lb/in</i>	Comments <i>ASTM D4812</i>
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	24.0 kJ/m ²	11.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J @Temperature 23.0 Â°C	9.59 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.28	0.28	ASTM D3702 Modified
Coefficient of Friction, Static	0.35	0.35	ASTM D3702 Modified
K (wear) Factor	2.01 x 10 ⁻⁸ mm ³ /N-M	1.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Ring; ASTM D3702 Modified
	145 x 10 ⁻⁸ mm ³ /N-M	72.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	42.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	79.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	43.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	127 Â°C	261 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)	114 Â°C	237 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	117 Â°C @Thickness 3.20 mm	243 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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