

SABIC Innovative Plastics LNP LUBRICOMP ZFL31XXC PPE+PS

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

Material Notes:

LNP* LUBRICOMP* ZFL31XXC is a compound based on PPE+PS resin containing 5% Glass Fiber, 15% PTFE. 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-ZFL31XXC-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Moisture Absorption	0.0700 %	0.0700 %	50% RH, 24 hrs; ASTM D570
	0.100 %	0.100 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	Type I, 5 mm/min; ASTM D638
	60.0 MPa	8700 psi	5 mm/min; ISO 527
Elongation at Break	3.2 %	3.2 %	5 mm/min; ISO 527
	3.5 %	3.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.7 %	2.7 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.64 GPa	528 ksi	1 mm/min; ISO 527
	4.01 GPa	582 ksi	50 mm/min; ASTM D638
Flexural Strength	89.0 MPa	12900 psi	ISO 178
	106 MPa	15400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.65 GPa	529 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	4.80 GPa Metric	696 ksi English	2 mm/min: ISO 178 Comments
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.80 J/cm	7.12 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 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	12.0 J @Temperature 23.0 Â°C	8.85 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	0.40	0.40	ASTM D3702 Modified
Coefficient of Friction, Static	0.26	0.26	ASTM D3702 Modified
K (wear) Factor	201 x 10 ⁻⁸ mm ³ /N-M	100 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.7 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	36.5 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	68.5 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	38.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	134 Â°C	273 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	136 Â°C @Thickness 3.20 mm	277 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 Â°C	261 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	127 Â°C @Thickness 3.20 mm	261 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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