

SABIC Innovative Plastics LNP Lubricomp ZFL24 PPO

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

LNP* Lubricomp* ZFL24 is a compound based on Modified Polyphenylene Oxide (PPO) containing glass fiber and PTFE lubricant.

Characteristics of this grade are: 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-Lubricomp-ZFL24-PPO.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D 792
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.14 %	0.14 %	23Â°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	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	92.0 MPa	13300 psi	5 mm/min; ISO 527
	96.0 MPa	13900 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	1.9 %	1.9 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	7.12 GPa	1030 ksi	1 mm/min; ISO 527
	7.54 GPa	1090 ksi	50 mm/min; ASTM D 638
Flexural Strength	138 MPa	20000 psi	ISO 178
	143 MPa	20700 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Yield Strength	144 MPa	20900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	6.57 GPa	953 ksi	2 mm/min; ISO 178
	6.88 GPa	998 ksi	1.3 mm/min, 50 mm span; ASTM D

Mechanical Properties	Metric	English	790 Comments
Izod Impact, Notched	0.990 J/cm @Temperature 23.0 Â°C	1.85 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	4.69 J/cm @Temperature 23.0 Â°C	8.79 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	9.00 kJ/mÂ² @Temperature 23.0 Â°C	4.28 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/mÂ² @Temperature 23.0 Â°C	13.3 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763
Coefficient of Friction, Dynamic	0.47	0.47	ASTM D 3702 Modified
Coefficient of Friction, Static	0.54	0.54	ASTM D 3702 Modified
K (wear) Factor	38.3 x 10 ⁻⁸ mmÂ³/N-M	19.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Ring; ASTM D 3702 Modified
	203 x 10 ⁻⁸ mmÂ³/N-M	101 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	40.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	56.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	31.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	136 Â°C	277 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 D 648
Deflection Temperature at 1.8 MPa (264 psi)	130 Â°C	266 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af

Thermal Properties	131 Å°C Metric	268 Å°F English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	Unfinished, ASTM D 648

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