

SABIC Innovative Plastics LNP LUBRICOMP ZFG26 PPE+PS

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

Material Notes:

LNP* LUBRICOMP* ZFG26 is a compound based on PPE+PS resin containing 30% Glass Fiber, 10% Graphite. 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-ZFG26-PPEPS.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Moisture Absorption	0.0600 %	0.0600 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0036 cm/cm	0.0036 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0073 cm/cm	0.0073 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	109 MPa	15800 psi	ISO 527
	115 MPa	16700 psi	ASTM D638
Tensile Strength, Yield	109 MPa	15800 psi	ASTM D638
	109 MPa	15800 psi	ISO 527
Elongation at Break	1.5 %	1.5 %	ASTM D638
	1.5 %	1.5 %	ISO 527
Elongation at Yield	1.5 %	1.5 %	ASTM D638
	1.5 %	1.5 %	ISO 527
Tensile Modulus	10.48 GPa	1520 ksi	1 mm/min; ISO 527

Mechanical Properties	13.1 GPa Metric	1900 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	163 MPa	23600 psi	ISO 178
	165 MPa	23900 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ISO 178
	10.48 GPa	1520 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.77 J/cm	7.06 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.62	0.62	ASTM D3702 Modified
Coefficient of Friction, Static	0.89	0.89	ASTM D3702 Modified
K (wear) Factor	228 x 10 ⁻⁸ mm ³ /N-M	113 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.8 Åµm/m-Å°C	26.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	47.0 Åµm/m-Å°C	26.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	21.6 Åµm/m-Å°C	12.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	22.0 Åµm/m-Å°C	12.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	141 Å°C	286 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	140 Å°C	284 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Thermal Properties (204 psi)	Metric	English	Comments
Temperature at 1.8 MPa	135 Å°C	275 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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