

SABIC Innovative Plastics LNP LUBRICOMP WFL36 PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

LNP LUBRICOMP* WFL36 is a compound based on PBT resin containing 30% 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-WFL36-PBT.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ASTM D792
	1.68 g/cc	0.0607 lb/in ³	ISO 1183
Moisture Absorption	0.0400 %	0.0400 %	50% RH, 24 hrs; ASTM D570
	0.0400 %	0.0400 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	117 MPa	17000 psi	ASTM D638
	118 MPa	17100 psi	ISO 527
Elongation at Break	2.2 %	2.2 %	ISO 527
	2.3 %	2.3 %	ASTM D638
Tensile Modulus	10.34 GPa	1500 ksi	50 mm/min; ASTM D638
	10.61 GPa	1539 ksi	1 mm/min; ISO 527
Flexural Strength	187 MPa	27100 psi	ISO 178
	193 MPa	28000 psi	ASTM D790

Flexural Modulus Mechanical Properties	10.01 GPa Metric	1452 ksi English	ISO 178 Comments
	10.16 GPa	1474 ksi	ASTM D790
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.83 J/cm	12.8 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	42.0 kJ/m ²	20.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J	9.59 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.57	0.57	ASTM D3702 Modified
Coefficient of Friction, Static	0.41	0.41	ASTM D3702 Modified
K (wear) Factor	84.6 x 10 ⁻⁸ mm ³ /N-M	42.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	38.5 Åµm/m-Å°C	21.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	38.5 Åµm/m-Å°C	21.4 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	67.2 Åµm/m-Å°C	37.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	67.3 Åµm/m-Å°C	37.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	214 Å°C	417 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	217 Å°C	423 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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