

SABIC Innovative Plastics LNP LUBRICOMP WFL34H PBT

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

Material Notes:

LNP LUBRICOMP* WFL34H is a compound based on PBT resin containing 20% Glass Fiber, 15% PTFE. Added features of this material include: Wear Resistant, Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WFL34H-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ASTM D792
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D792
Moisture Absorption	0.0500 %	0.0500 %	50% RH, 24 hrs; ASTM D570
	0.0700 %	0.0700 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 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	121 MPa	17500 psi	50 mm/min; ISO 527
	123 MPa	17800 psi	ASTM D638
Tensile Strength, Yield	121 MPa	17500 psi	5 mm/min; ISO 527
	123 MPa	17800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.6 %	2.6 %	50 mm/min; ISO 527
	2.8 %	2.8 %	ASTM D638
Elongation at Yield	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
	2.7 %	2.7 %	50 mm/min; ISO 527
Tensile Modulus	8.46 GPa	1230 ksi	1 mm/min; ISO 527
	8.75 GPa	1270 ksi	50 mm/min; ASTM D638
Flexural Strength	176 MPa	25500 psi	ASTM D790
	182 MPa	26400 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	6.84 GPa	992 ksi	ASTM D790
	7.50 GPa	1090 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.870 J/cm	1.63 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.17 J/cm	15.3 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)	46.0 kJ/m ²	21.9 ft-lb/in ²	80*10*3; ISO 180/1U
Dart Drop, Total Energy	9.00 J @Temperature 23.0 °C	6.64 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.47	0.47	ASTM D3702 Modified
Coefficient of Friction, Static	0.46	0.46	ASTM D3702 Modified
K (wear) Factor	70.5 x 10 ⁻⁸ mm ³ /N-M	35.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	223 °C	433 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	223 °C @Thickness 3.20 mm	433 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	209 °C	408 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	213 °C @Thickness 3.20 mm	415 °F @Thickness 0.126 in	unannealed; ASTM D648

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