SABIC Innovative Plastics LNP LUBRICOMP WBL36L PBT (Asia Pacific)

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

Material Notes:

LNP* Lubricomp* WBL36L is a compound based on Polybutylene Terephalate resin containing Glass Bead, PTFE. Added features of this material include: Internally Lubricated, Low Extractible.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WBL36L-PBT-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/inÂ³	ASTM D792
	1.69 g/cc	0.0611 lb/inÂ³	ISO 1183
Moisture Absorption	0.0400 %	0.0400 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.024 cm/cm	0.024 in/in	SABIC Method
	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
	0.024 cm/cm @Time 86400 sec	0.024 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	SABIC Method
	0.017 - 0.020 cm/cm @Time 86400 sec	0.017 - 0.020 in/in @Time 24.0 hour	ASTM D955
	0.019 cm/cm @Time 86400 sec	0.019 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.0 MPa	5220 psi	ASTM D638
	36.0 MPa	5220 psi	Type I, 5 mm/min; ASTM D638
	36.0 MPa	5220 psi	ISO 527
	36.0 MPa	5220 psi	5 mm/min; ISO 527
Tensile Strength, Yield	37.0 MPa	5370 psi	ASTM D638
	37.0 MPa	5370 psi	Type I, 5 mm/min; ASTM D638
	37.0 MPa	5370 psi	ISO 527

Mechanical Properties	Metric	English	Comments
	37.0 MPa	5370 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	ASTM D638
	3.1 %	3.1 %	Type I, 5 mm/min; ASTM D638
	3.3 %	3.3 %	ISO 527
	3.4 %	3.4 %	5 mm/min; ISO 527
Elongation at Yield	2.2 %	2.2 %	ASTM D638
	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
	2.3 %	2.3 %	ISO 527
	2.4 %	2.4 %	5 mm/min; ISO 527
Tensile Modulus	4.02 GPa	583 ksi	1 mm/min; ISO 527
	4.13 GPa	599 ksi	50 mm/min; ASTM D638
Flexural Strength	68.0 MPa	9860 psi	ASTM D790
	75.0 MPa	10900 psi	ISO 178
Flexural Yield Strength	74.0 MPa	10700 psi	1.3 mm/min, 50 mm span; ASTM D790
	75.0 MPa	10900 psi	2 mm/min; ISO 178
Flexural Modulus	3.90 GPa	566 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.90 GPa	566 ksi	ISO 178
	4.13 GPa	599 ksi	ASTM D790
	4.14 GPa	600 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.56 J/cm	4.80 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/mÂ²	1.43 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	18.0 kJ/mÂ²	8.57 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.66	0.66	ASTM D3702 Modified
Coefficient of Friction, Static	0.63	0.63	ASTM D3702 Modified

Mechanical Properties	Metric	English	Comments
K (Wear) Factor	30.4 x 10^{-8} mmÂ³/N-M	85.0 x 10^{-10} inÂ³-min/ft-lb-hr	Washer, ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	41.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	74.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	41.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	74.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	41.1 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	70.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	39.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	71.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	39.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	71.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	39.4 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	184 Â°C	363 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	188 Â°C @Thickness 3.20 mm	370 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Â°C	201 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	95.0 Â°C @Thickness 3.20 mm	203 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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