

SABIC Innovative Plastics LNP LUBRICOMP WCL36 PBT

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

Material Notes:

LNP* LUBRICOMP* WCL36 is a compound based on PBT resin containing 30% Carbon Fiber, 15% PTFE. Added features of this grade include: Electrically Conductive, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WCL36-PBT.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D792
	1.51 g/cc	0.0546 lb/in ³	ISO 1183
Moisture Absorption	0.0300 %	0.0300 %	50% RH, 24 hrs; ASTM D570
	0.0500 %	0.0500 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	121 MPa	17500 psi	5 mm/min; ISO 527
	125 MPa	18100 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	125 MPa	18100 psi	Type I, 5 mm/min; ASTM D638
	130 MPa	18900 psi	5 mm/min; ISO 527
Elongation at Break	1.0 %	1.0 %	Type I, 5 mm/min; ASTM D638
	1.0 %	1.0 %	5 mm/min; ISO 527
Elongation at Yield	1.0 %	1.0 %	Type I, 5 mm/min; ASTM D638
	1.0 %	1.0 %	5 mm/min; ISO 527
Tensile Modulus	20.64 GPa	2994 ksi	1 mm/min; ISO 527
	23.38 GPa	3391 ksi	50 mm/min; ASTM D638
Flexural Strength	175 MPa	25400 psi	1.3 mm/min, 50 mm span; ASTM D790
	187 MPa	27100 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	17.3 MPa	25100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	14.9 GPa	2160 ksi	1.3 mm/min, 50 mm span; ASTM D790
	18.06 GPa	2619 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.360 J/cm	0.674 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.90 J/cm	7.31 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	24.0 kJ/m ²	11.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.34	0.34	ASTM D3702 Modified
Coefficient of Friction, Static	0.30	0.30	ASTM D3702 Modified
K (wear) Factor	4.03 - 6.04 x 10 ⁻⁸ mm ³ /N-M	2.00 - 3.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Ring; ASTM D3702 Modified
	50.4 x 10 ⁻⁸ mm ³ /N-M	25.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	13.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	7.22 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	36.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	20.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	223 Â°C	433 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	222 Â°C @Thickness 3.20 mm	432 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	210 Â°C @Thickness 3.20 mm	410 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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