

SABIC Innovative Plastics LNP LUBRICOMP WCP36 PBT (Europe-Africa-Middle East)

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

Material Notes:

LNP* LUBRICOMP* WCP36 is a compound based on Polybutylene Terephthalate resin containing Carbon Fiber, PTFE, Silicone. Added features include; Internally Lubricated, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WCP36-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.00060 cm/cm	0.00060 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	116 MPa	16800 psi	5 mm/min; ISO 527
Elongation at Break	1.1 %	1.1 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Flexural Strain, break, 2 mm/min; ISO 178
Tensile Modulus	16.0 GPa	2320 ksi	1 mm/min; ISO 527
Flexural Strength	127 MPa	18400 psi	2 mm/min; ISO 178
Flexural Yield Strength	137 MPa	19900 psi	2 mm/min; ISO 178
Flexural Modulus	11.5 GPa	1670 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	12.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	70.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	221 $\text{Å}^\circ\text{C}$	430 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa	198 $\text{Å}^\circ\text{C}$	388 $\text{Å}^\circ\text{F}$	

(264 psi) Thermal Properties	Metric	English	Flatw 80*10*4 sp=64mm; ISO 75/Af Comments
Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1000 ohm	10 - 1000 ohm	ASTM D257

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