

SABIC Innovative Plastics LNP LUBRICOMP WI001 PBT (Europe-Africa-Middle East)

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

Material Notes:

LNP* LUBRICOMP* WI001 is a compound based on Polybutylene Terephthalate resin containing Silicone. Added features include; Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WI001-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Water Absorption	0.090 % @Time 86400 sec	0.090 % @Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.013 cm/cm @Time 86400 sec	0.013 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.013 cm/cm @Time 86400 sec	0.013 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	5 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527
Flexural Yield Strength	69.0 MPa	10000 psi	2 mm/min; ISO 178
Flexural Modulus	2.30 GPa	334 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)	NB	NB	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	119 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	66.1 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	131 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	72.8 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	115 Â°C	239 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Df
Deflection Temperature at 1.8 MPa (264 psi)	66.0 Â°C	151 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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