

SABIC Innovative Plastics LNP LUBRICOMP WL004 PBT (Europe-Africa-Middle East)

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

Material Notes:

LNP* Lubricomp* WL004 is a compound based on Polybutylene Terephthalate resin containing PTFE.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-WL004-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.010 - 0.017 cm/cm	0.010 - 0.017 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0080 - 0.017 cm/cm	0.0080 - 0.017 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	41.0 MPa	5950 psi	5 mm/min; ISO 527
Elongation at Yield	12.2 %	12.2 %	5 mm/min; ISO 527
Tensile Modulus	2.40 GPa	348 ksi	1 mm/min; ISO 527
Flexural Yield Strength	67.0 MPa	9720 psi	2 mm/min; ISO 178
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 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
Coefficient of Friction, Dynamic	0.32	0.32	ASTM D3702 Modified
Coefficient of Friction, Static	0.25	0.25	ASTM D3702 Modified
K (wear) Factor	117 x 10 ⁻⁸ mm ³ /N-M	58.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	117 Åµm/m-Å°C	65.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	107 Åµm/m-Å°C	59.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	

Deflection Temperature at 0.46 MPa Thermal Properties (0.07 MPa)	153 Â°C Metric	307 Â°F English	Flatw 80*10*4 sp=64mm; ISO 75/Bf Comments
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Â°C	140 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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