

SABIC Innovative Plastics LNP LUBRICOMP WI001 PBT

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

Material Notes:

LNP* LUBRICOMP* WI001 is a compound based on PBT containing 2% Silicone. Added feature of this grade is: Wear Resistant.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
Moisture Absorption	0.0600 %	0.0600 %	50% RH, 24 hrs; ASTM D570
	0.0900 %	0.0900 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	5 mm/min; ISO 527
	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	Type I, 5 mm/min; ASTM D638
	53.0 MPa	7690 psi	5 mm/min; ISO 527
Elongation at Break	32 %	32 %	5 mm/min; ISO 527
	51 %	51 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	2.54 GPa	368 ksi	1 mm/min; ISO 527
	2.72 GPa	395 ksi	5 mm/min; ASTM D638
Flexural Strength	81.0 MPa	11700 psi	ISO 178
Flexural Yield Strength	88.0 MPa	12800 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	2.52 GPa Metric	365 ksi English	2 mm/min: ISO 178 Comments
	2.62 GPa	380 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.0500 J/cm	0.0937 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.35 J/cm	17.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	47.0 kJ/m ²	22.4 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	62.0 kJ/m ²	29.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	8.00 J	5.90 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.31	0.31	ASTM D3702 Modified
Coefficient of Friction, Static	0.19	0.19	ASTM D3702 Modified
K (wear) Factor	274 x 10 ⁻⁸ mm ³ /N-M	136 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	47.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	88.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	48.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	156 Â°C	313 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	202 Â°C @Thickness 3.20 mm	396 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	56.0 Â°C	133 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	61.0 Â°C @Thickness 3.20 mm	142 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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