

SABIC Innovative Plastics LNP LUBRICOMP TX97446 PU

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

LNP* LUBRICOMP* TX97446 is a compound based on Polyurethane containing Proprietary Fillers. Added feature of this material is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-TX97446-PU.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Moisture Absorption	0.460 %	0.460 %	50% RH, 24 hrs; ASTM D570
	0.660 %	0.660 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.020 cm/cm	0.0080 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.0 MPa	3340 psi	Type I, 5 mm/min; ASTM D638
	23.0 MPa	3340 psi	5 mm/min; ISO 527
Elongation at Yield	51 %	51 %	5 mm/min; ISO 527
	54 %	54 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	0.410 GPa	59.5 ksi	1 mm/min; ISO 527
	0.560 GPa	81.2 ksi	5 mm/min; ASTM D638
Flexural Strength	13.0 MPa	1890 psi	ISO 178
Flexural Modulus	0.350 GPa	50.8 ksi	1.3 mm/min, 50 mm span; ASTM D790
	0.380 GPa	55.1 ksi	2 mm/min; ISO 178
Izod Impact, Notched	2.35 J/cm	4.40 ft-lb/in	ASTM D256
Izod Impact, Unnotched	12.1 J/cm	22.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	18.0 kJ/m ²	8.57 ft-lb/in ²	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	45.0 ft-lb/in ²	ISO 180/1U
Dart Drop, Total Energy	45.0 J @Temperature 23.0 Â°C	33.2 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	37.0 J	27.3 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	124 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	68.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	143 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	79.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	61.0 Â°C	142 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	51.0 Â°C @Thickness 3.20 mm	124 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	44.0 Â°C	111 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	42.0 Â°C @Thickness 3.20 mm	108 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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