

SABIC Innovative Plastics LNP LUBRICOMP BX03658N SAN

Category : Polymer , Thermoplastic , SAN Polymer

Material Notes:

LNP* LUBRICOMP* BX03658N is a compound based on SAN resin containing proprietary fillers. Added features of this grade include: Wear Resistant, Tight Dimensional Tolerances, good for Water Meter Applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-BX03658N-SAN.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
	0.160 %	0.160 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Time 86400 sec	0.0030 - 0.0050 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Time 86400 sec	0.0040 - 0.0060 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	5 mm/min; ISO 527
	52.0 MPa	7540 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	6.13 GPa	889 ksi	1 mm/min; ISO 527
	6.52 GPa	946 ksi	5 mm/min; ASTM D638
Flexural Strength	80.0 MPa	11600 psi	ISO 178
	84.0 MPa	12200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.06 GPa	879 ksi	2 mm/min; ISO 178
	6.32 GPa	917 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.170 J/cm	0.318 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	1. 24 J/cm Metric	2. 32 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	2.00 J @Temperature 23.0 °C	1.48 ft-lb @Temperature 73.4 °F	ASTM D3763
Coefficient of Friction, Dynamic	0.36	0.36	ASTM D3702 Modified
Coefficient of Friction, Static	0.44	0.44	ASTM D3702 Modified
K (wear) Factor	22.2 x 10 ⁻⁸ mm ³ /N-M	11.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Ring; ASTM D3702 Modified
	328 x 10 ⁻⁸ mm ³ /N-M	163 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.0 µm/m-°C @Temperature -30.0 - 30.0 °C	25.6 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	53.0 µm/m-°C @Temperature -30.0 - 30.0 °C	29.4 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	101 °C	214 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	101 °C @Thickness 3.20 mm	214 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	96.0 °C	205 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	95.0 °C @Thickness 3.20 mm	203 °F @Thickness 0.126 in	unannealed; ASTM D648

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