

SABIC Innovative Plastics LNP LUBRICOMP VN001 Super Tough Nylon

Category : Polymer , Thermoplastic , Nylon

Material Notes:

LNP* LUBRICOMP* VN001 is a compound based on Super Tough Nylon containing 2% MOS2. Added feature of th is grade is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-VN001-Super-Tough-Nylon.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Moisture Absorption	0.800 %	0.800 %	50% RH, 24 hrs; ASTM D570
	1.10 %	1.10 %	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 - 0.050 cm/cm	0.020 - 0.050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	Type I, 5 mm/min; ASTM D638
	53.0 MPa	7690 psi	5 mm/min; ISO 527
Tensile Strength, Yield	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D638
	56.0 MPa	8120 psi	5 mm/min; ISO 527
Elongation at Break	4.0 %	4.0 %	Flexural Strain, break, 2 mm/min; ISO 178
	28 %	28 %	5 mm/min; ISO 527
	40.6 %	40.6 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.2 %	5.2 %	5 mm/min; ISO 527
	38 %	38 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.29 GPa	332 ksi	50 mm/min; ASTM D638
	2.38 GPa	345 ksi	1 mm/min; ISO 527
Flexural Yield Strength	69.0 MPa	10000 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	1.91 GPa	27.7 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.08 GPa	302 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.58 J/cm	2.96 ft-lb/in	ASTM D256
Izod Impact, Unnotched	17.3 J/cm	32.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	182 kJ/m ²	86.6 ft-lb/in ²	80*10*4; ISO 180/1U
Impact Test	22.0 J	16.2 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.79	0.79	ASTM D3702 Modified
Coefficient of Friction, Static	0.36	0.36	ASTM D3702 Modified
K (wear) Factor	143 x 10 ⁻⁸ mm ³ /N-M	71.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	118 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	65.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	118 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	65.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	210 Â°C	410 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	216 Â°C @Thickness 3.20 mm	421 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	64.0 Â°C	147 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	65.0 Â°C @Thickness 3.20 mm	149 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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