

SABIC Innovative Plastics LNP LUBRICOMP EL002 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Lubricomp* EL002 is a compound based on Polyetherimide resin containing 10% PTFE. Added features of this material include:
Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-EL002-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.300 %	0.300 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	76.0 MPa	11000 psi	Type I, 5 mm/min; ASTM D638
	78.0 MPa	11300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	82.0 MPa	11900 psi	5 mm/min; ISO 527
	86.0 MPa	12500 psi	Type I, 5 mm/min; ASTM D638
	102 MPa	14800 psi	ASTM D638
Elongation at Break	10.2 %	10.2 %	5 mm/min; ISO 527
	13.8 %	13.8 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	6.2 %	6.2 %	5 mm/min; ISO 527
	6.4 %	6.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.75 GPa	399 ksi	1 mm/min; ISO 527
	3.44 GPa	499 ksi	50 mm/min; ASTM D638
Flexural Strength	108 MPa	15700 psi	ISO 178

Mechanical Properties	Metric ^{°C}	English ^{°F}	Comments
Flexural Modulus	2.81 GPa	408 ksi	2 mm/min; ISO 178
	3.04 GPa	441 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.44 GPa	499 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.84 J/cm	10.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	38.0 kJ/m ²	18.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 °C	4.43 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.32	0.32	ASTM D3702 Modified
Coefficient of Friction, Static	0.29	0.29	ASTM D3702 Modified
K (wear) Factor	373 x 10 ⁻⁸ mm ³ /N-M	185 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.0 μm/m-°C @Temperature -30.0 - 30.0 °C	26.7 μin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	47.0 μm/m-°C @Temperature -30.0 - 30.0 °C	26.1 μin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	201 °C	394 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	203 °C @Thickness 3.20 mm	397 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	186 °C	367 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	193 °C @Thickness 3.20 mm	379 °F @Thickness 0.126 in	unannealed; ASTM D648

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