

LNP* Lubricomp* Compound EL002

Americas: COMMERCIAL

LNP* Lubricomp* EL002 is a compound based on Polyetherimide with PTFE Lubricant.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	86	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	76	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	6.4	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	13.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	2890	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	-0	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	3040	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	82	MPa	ISO 527
Tensile Stress, break, 5 mm/min	78	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	6.2	%	ISO 527
Tensile Strain, break, 5 mm/min	10.2	%	ISO 527
Tensile Modulus, 1 mm/min	2750	MPa	ISO 527
Flexural Stress	108	MPa	ISO 178
Flexural Stress, yield, 2 mm/min	-0	MPa	ISO 178
Flexural Modulus, 2 mm/min	2810	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	584	J/m	ASTM D 4812
Izod Impact, notched, 23°C	50	J/m	ASTM D 256
Multiaxial Impact	1	J	ISO 6603
Instrumented Impact Total Energy, 23°C	6	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	38	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	203	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	193	°C	ASTM D 648
CTE, -30°C to 30°C, flow	4.8E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	4.7E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	201	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	186	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.32	-	ASTM D 792
Density	1.31	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.7 - 0.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.8 - 1	%	ASTM D 955
Wear Factor Washer	185	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.32	-	ASTM D 3702 Modified
Static COF	0.29	-	ASTM D 3702 Modified
Density	-0	g/cm ³	ISO 1183

Moisture Absorption (23°C / 50% RH)	0.3	%	ISO 62
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Source GMD, last updated:05/14/2008

Processing

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

- (1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.
- (2) Only typical data for selection purposes. Not to be used for part or tool design.
- (3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
- (4) Internal measurements according to UL standards.

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