



## LNP™ LUBRICOMP™ Compound EX00548C

### Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound PDX-E-00548 CCS

Product reorder name: EX00548C

LNP\* LUBRICOMP\* EX00548C is a compound based on Polyetherimide resin containing Proprietary Fillers. Added features of this material include: Clean Compounding System, Wear Resistant.

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, yield	870	kgf/cm <sup>2</sup>	ASTM D 638
Tensile Stress, break	850	kgf/cm <sup>2</sup>	ASTM D 638
Tensile Strain, yield	6.1	%	ASTM D 638
Tensile Strain, break	8.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	30900	kgf/cm <sup>2</sup>	ASTM D 638
Flexural Stress	1510	kgf/cm <sup>2</sup>	ASTM D 790
Flexural Modulus	35100	kgf/cm <sup>2</sup>	ASTM D 790
Tensile Stress, yield	86	MPa	ISO 527
Tensile Stress, break	85	MPa	ISO 527
Tensile Strain, yield	6	%	ISO 527
Tensile Strain, break	7.6	%	ISO 527
Tensile Modulus, 1 mm/min	3200	MPa	ISO 527
Flexural Stress	143	MPa	ISO 178
Flexural Modulus	3390	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	47	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	2	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	49	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80°10°4 +23°C	32	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80°10°4 +23°C	4	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
HDT, 1.82 MPa, 3.2mm, unannealed	185	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80°10°4 sp=64mm	184	°C	ISO 75/Af

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(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.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
<b>PHYSICAL</b>			
Density	1.31	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.22	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.66	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.7	%	ISO 294
Density	1.31	g/cm <sup>3</sup>	ISO 1183

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(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
<b>Injection Molding</b>		
Drying Temperature	120 - 150	°C
Drying Time	4 - 6	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	360 - 365	°C
Front - Zone 3 Temperature	365 - 375	°C
Middle - Zone 2 Temperature	355 - 365	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	120 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm

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