



LNP™ LUBRICOMP™ Compound DL003EU

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound DL-4030 EM UV

Product reorder name: DL003EU

LNP LUBRICOMP* DL003EU is a compound based on Polycarbonate resin containing 15% PTFE. Added features of this material include: Easy Molding, UV Stabilized, Internally Lubricated.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	450	kgf/cm ²	ASTM D 638
Tensile Stress, break	510	kgf/cm ²	ASTM D 638
Tensile Strain, yield	5.6	%	ASTM D 638
Tensile Strain, break	25.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	22200	kgf/cm ²	ASTM D 638
Flexural Stress	840	kgf/cm ²	ASTM D 790
Flexural Modulus	23500	kgf/cm ²	ASTM D 790
Tensile Stress, yield	54	MPa	ISO 527
Tensile Stress, break	50	MPa	ISO 527
Tensile Strain, yield	5.5	%	ISO 527
Tensile Strain, break	9.6	%	ISO 527
Tensile Modulus, 1 mm/min	2200	MPa	ISO 527
Flexural Stress	84	MPa	ISO 178
Flexural Modulus	2300	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	217	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	14	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	100	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	16	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	116	°C	ASTM D 648
CTE, -40°C to 40°C, flow	7.38E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.55E-05	1/°C	ASTM E 831

(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.

(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.

Source GMD, last updated:

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, flow	7.4E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.5E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	138	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	128	°C	ISO 75/Af
PHYSICAL			
Density	1.28	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.8 - 0.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.8 - 0.9	%	ASTM D 955
Wear Factor Washer	60	10 ⁻⁴ in ³ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.18	-	ASTM D 3702 Modified
Static COF	0.07	-	ASTM D 3702 Modified
Density	1.29	g/cm ³	ISO 1183

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	300 - 315	°C
Front - Zone 3 Temperature	310 - 320	°C
Middle - Zone 2 Temperature	305 - 315	°C
Rear - Zone 1 Temperature	295 - 305	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

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