



LNP™ LUBRICOMP™ Compound EL003

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound EL-4030

Product reorder name: EL003

LNP™ LUBRICOMP™ EL003 is a compound based on Polyetherimide resin containing 15% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	900	kgf/cm ²	ASTM D 638
Tensile Stress, break	860	kgf/cm ²	ASTM D 638
Tensile Strain, yield	6.5	%	ASTM D 638
Tensile Strain, break	10.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	28100	kgf/cm ²	ASTM D 638
Flexural Stress	1380	kgf/cm ²	ASTM D 790
Flexural Modulus	29500	kgf/cm ²	ASTM D 790
Tensile Stress, yield	83	MPa	ISO 527
Tensile Stress, break	82	MPa	ISO 527
Tensile Strain, yield	6.3	%	ISO 527
Tensile Strain, break	8.1	%	ISO 527
Tensile Modulus, 1 mm/min	2740	MPa	ISO 527
Flexural Stress	130	MPa	ISO 178
Flexural Modulus	3020	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	76	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	97	cm-kgf	ASTM D 3763
Multiaxial Impact	15	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	61	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	182	°C	ASTM D 648





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THERMAL			
CTE, -40°C to 40°C, flow	4.78E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.76E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.77E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.76E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	182	°C	ISO 75/Af
PHYSICAL			
Density	1.35	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.21	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.8 - 1.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.8 - 1.1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.8 - 0.11	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.8 - 0.11	%	ISO 294
Wear Factor Washer	106	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.3	-	ASTM D 3702 Modified
Static COF	0.23	-	ASTM D 3702 Modified
Density	1.35	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.25	%	ISO 62





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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
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

