



LNP™ LUBRICOMP™ Compound EL002

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound EL-4020

Product reorder name: EL002

LNP™ LUBRICOMP™ EL002 is a compound based on Polyetherimide resin containing 10% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	1040	kgf/cm ²	ASTM D 638
Tensile Stress, yld, Type I, 5 mm/min	880	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	780	kgf/cm ²	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	35100	kgf/cm ²	ASTM D 638
Flexural Stress	1470	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	-0	kgf/cm ²	ASTM D 790
Flexural Modulus	35100	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	30900	kgf/cm ²	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	59	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Multiaxial Impact	14	cm-kgf	ISO 6603



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IMPACT			
Instrumented Impact Total Energy, 23°C	62	cm-kgf	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 (5)	0.7 - 0.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	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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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