



LNP™ LUBRICOMP™ Compound RL002

Americas: COMMERCIAL

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

Product reorder name: RL002

LNP LUBRICOMP™ RL002 is a compound based on Nylon 66 resin containing 10% PTFE. Added features of this material include: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	760	kgf/cm ²	ASTM D 638
Tensile Stress, break	760	kgf/cm ²	ASTM D 638
Tensile Strain, yield	13.5	%	ASTM D 638
Tensile Strain, break	14.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	31400	kgf/cm ²	ASTM D 638
Flexural Stress	1140	kgf/cm ²	ASTM D 790
Flexural Modulus	31000	kgf/cm ²	ASTM D 790
Tensile Stress, yield	73	MPa	ISO 527
Tensile Stress, break	73	MPa	ISO 527
Tensile Strain, yield	16.7	%	ISO 527
Tensile Strain, break	17.6	%	ISO 527
Tensile Modulus, 1 mm/min	3170	MPa	ISO 527
Flexural Stress	89	MPa	ISO 178
Flexural Modulus	2840	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	91	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	36	cm-kgf	ASTM D 3763
Multiaxial Impact	42	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	59	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	76	°C	ASTM D 648



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THERMAL			
CTE, -40°C to 40°C, flow	8.26E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	8.58E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	8.25E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.57E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	74	°C	ISO 75/Af
PHYSICAL			
Density	1.19	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.94	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	2.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	2.23	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	2.59	%	ISO 294
Wear Factor Washer	49	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.27	-	ASTM D 3702 Modified
Static COF	0.23	-	ASTM D 3702 Modified
Moisture Absorption (23°C / 50% RH)	1.18	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	275 - 290	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	80 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm