



LNP™ LUBRICOMP™ Compound RL003

Americas: COMMERCIAL

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

Product reorder name: RL003

LNP LUBRICOMP RL003 is a compound based on Nylon 66 resin containing 15% PTFE. Added features of this material include: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	750	kgf/cm ²	ASTM D 638
Tensile Strain, break	11	%	ASTM D 638
Flexural Stress	1050	kgf/cm ²	ASTM D 790
Tensile Stress, break	73	MPa	ISO 527
Tensile Strain, break	8.9	%	ISO 527
Flexural Stress	90	MPa	ISO 178
Flexural Modulus	2900	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	103	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	82	°C	ISO 75/Af
PHYSICAL			
Density	1.23	g/cm ³	ASTM D 792
Mold Shrinkage, xflow, 24 hrs (5)	1 - 3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1 - 3	%	ISO 294
Wear Factor Washer	28	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.32	-	ASTM D 3702 Modified
Static COF	0.3	-	ASTM D 3702 Modified



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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