



LNP™ LUBRICOMP™ Compound RBL36L

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound RBL-4036 LE

Product reorder name: RBL36L

LNP LUBRICOMP RBL36L is a compound based on Nylon 66 containing 30% Glass Bead, 15% PTFE. Added features s of this grade are: Low Extractable, Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	670	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	8.8	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	9.1	%	ASTM D 638
Tensile Modulus, 5 mm/min	42600	kgf/cm ²	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	40200	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	58	MPa	ISO 527
Tensile Strain, break, 5 mm/min	8.3	%	ISO 527
Tensile Modulus, 1 mm/min	4100	MPa	ISO 527
Flexural Stress	109	MPa	ISO 178
Flexural Modulus, 2 mm/min	3810	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	34	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	4	cm-kgf/cm	ASTM D 256
Multiaxial Impact	15	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	54	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	23	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	231	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	91	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.02E+02	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	7.52E+01	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	223	°C	ISO 75/Bf



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THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	97	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.53	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.43	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	2 - 4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1 - 3	%	ASTM D 955
Wear Factor Washer	32	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Wear Factor Ring	0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.57	-	ASTM D 3702 Modified
Static COF	0.58	-	ASTM D 3702 Modified
Density	1.52	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.54	%	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	280 - 305	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	95 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm