



LNP™ LUBRICOMP™ Compound WBL36L

Americas: COMMERCIAL

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

Product reorder name: WBL36L

LNP LUBRICOMP WBL36L is a compound based on PBT resin containing 30% Glass Bead, 15% PTFE. Added features of this material include: Wear Resistant, Low Extractible.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	370	kgf/cm ²	ASTM D 638
Tensile Stress, break	370	kgf/cm ²	ASTM D 638
Tensile Strain, yield	2.2	%	ASTM D 638
Tensile Strain, break	3	%	ASTM D 638
Tensile Modulus, 50 mm/min	42100	kgf/cm ²	ASTM D 638
Flexural Stress	700	kgf/cm ²	ASTM D 790
Flexural Modulus	42100	kgf/cm ²	ASTM D 790
Tensile Stress, yield	37	MPa	ISO 527
Tensile Stress, break	36	MPa	ISO 527
Tensile Strain, yield	2.3	%	ISO 527
Tensile Strain, break	3.3	%	ISO 527
Tensile Modulus, 1 mm/min	4020	MPa	ISO 527
Flexural Stress	75	MPa	ISO 178
Flexural Modulus	3900	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	26	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	35	cm-kgf	ASTM D 3763
Multiaxial Impact	12	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	18	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	188	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	95	°C	ASTM D 648
CTE, -40°C to 40°C, flow	7.38E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.02E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	7.4E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.1E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	184	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	94	°C	ISO 75/Af
PHYSICAL			
Density	1.69	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	1 - 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.7 - 2	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	2.4	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.9	%	ISO 294
Wear Factor Washer	25	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.66	-	ASTM D 3702 Modified
Static COF	0.63	-	ASTM D 3702 Modified
Density	1.69	g/cm ³	ISO 1183



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	240 - 265	°C
Front - Zone 3 Temperature	260 - 270	°C
Middle - Zone 2 Temperature	245 - 255	°C
Rear - Zone 1 Temperature	220 - 230	°C
Mold Temperature	80 - 100	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm