



LNP™ LUBRICOMP™ Compound WL004

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound WL-4040

Product reorder name: WL004

LNP LUBRICOMP™ WL004 is a compound based on PBT resin containing 20% PTFE. Added features of this material include: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	490	kgf/cm ²	ASTM D 638
Tensile Strain, break	9.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	24600	kgf/cm ²	ASTM D 638
Flexural Stress	800	kgf/cm ²	ASTM D 790
Flexural Modulus	24600	kgf/cm ²	ASTM D 790
Tensile Stress, break	45	MPa	ISO 527
Tensile Strain, break	8.4	%	ISO 527
Tensile Modulus, 1 mm/min	2440	MPa	ISO 527
Flexural Stress	77	MPa	ISO 178
Flexural Modulus	2390	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	44	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	9	cm-kgf	ASTM D 3763
Multiaxial Impact	5	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	30	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	55	°C	ASTM D 648
CTE, -40°C to 40°C, flow	8.96E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	9.57E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	8.96E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	9.58E-05	1/°C	ISO 11359-2



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THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	61	°C	ISO 75/Af
PHYSICAL			
Density	1.43	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.05	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	2.1 - 2.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2.1 - 2.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	2.44 - 2.54	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	2.14 - 2.3	%	ISO 294
Wear Factor Washer	58	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.33	-	ASTM D 3702 Modified
Static COF	0.24	-	ASTM D 3702 Modified
Density	1.43	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.08	%	ISO 62



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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