



LNP™ LUBRICOMP™ Compound WL003

Americas: COMMERCIAL

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

Product reorder name: WL003

LNP LUBRICOMP WL003 is a compound based on PBT resin containing 15% PTFE. Added feature of this grade is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	480	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	480	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	6.5	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	7.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	28300	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	-0	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	22300	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	47	MPa	ISO 527
Tensile Stress, break, 5 mm/min	47	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	5.7	%	ISO 527
Tensile Strain, break, 5 mm/min	6.4	%	ISO 527
Tensile Modulus, 1 mm/min	2870	MPa	ISO 527
Flexural Modulus, 2 mm/min	2500	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	45	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Multiaxial Impact	8	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	27	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	177	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	58	°C	ASTM D 648
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	158	°C	ISO 75/Bf



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THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	62	°C	ISO 75/Af
PHYSICAL			
Density	1.396	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.04	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	2 - 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2 - 3	%	ASTM D 955
Wear Factor Washer	20	10 ⁻⁴ -10 ⁻⁵ in ³ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.23	-	ASTM D 3702 Modified
Static COF	0.16	-	ASTM D 3702 Modified
Density	1.39	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.06	%	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