



LNP™ LUBRICOMP™ Compound KG002

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound KL-4320

Product reorder name: KG002

LNP LUBRICOMP KG002 is a compound based on Acetal Copolymer resin containing 10% Graphite. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	520	kgf/cm ²	ASTM D 638
Tensile Stress, break	490	kgf/cm ²	ASTM D 638
Tensile Strain, yield	6.9	%	ASTM D 638
Tensile Strain, break	20.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	35100	kgf/cm ²	ASTM D 638
Flexural Modulus	28100	kgf/cm ²	ASTM D 790
Tensile Stress, yield	51	MPa	ISO 527
Tensile Stress, break	49	MPa	ISO 527
Tensile Strain, yield	7.5	%	ISO 527
Tensile Strain, break	19.4	%	ISO 527
Tensile Modulus, 1 mm/min	3180	MPa	ISO 527
Flexural Stress	70	MPa	ISO 178
Flexural Modulus	3000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	4	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	0	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	56	cm-kgf	ASTM D 3763
Multiaxial Impact	15	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	692	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	46	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	157	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	103	°C	ASTM D 648



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THERMAL			
CTE, -40°C to 40°C, flow	1.06E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	9.54E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.06E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	9.6E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	110	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	65	°C	ISO 75/Af
PHYSICAL			
Density	1.45	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	2.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2.2	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	2.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	2.2	%	ISO 294
Wear Factor Washer	103	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.56	-	ASTM D 3702 Modified
Static COF	0.44	-	ASTM D 3702 Modified
Density	1.45	g/cm ³	ISO 1183



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	200 - 215	°C
Front - Zone 3 Temperature	210 - 220	°C
Middle - Zone 2 Temperature	195 - 205	°C
Rear - Zone 1 Temperature	175 - 190	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm