



LNP™ LUBRICOMP™ Compound KL004A

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound FULTON 404 D

Product reorder name: KL004A

LNP LUBRICOMP™ KL004A is a compound based on Acetal Homopolymer resin containing 20% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	570	kgf/cm ²	ASTM D 638
Tensile Strain, break	11.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	26000	kgf/cm ²	ASTM D 638
Flexural Stress	870	kgf/cm ²	ASTM D 790
Flexural Modulus	26700	kgf/cm ²	ASTM D 790
Tensile Stress, break	50	MPa	ISO 527
Tensile Strain, break	9.4	%	ISO 527
Tensile Modulus, 1 mm/min	2700	MPa	ISO 527
Flexural Stress	86	MPa	ISO 178
Flexural Modulus	2900	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	57	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	4	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	73	cm-kgf	ASTM D 3763
Multiaxial Impact	9	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	39	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	95	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	98	°C	ISO 75/Af
PHYSICAL			
Density	1.52	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.23	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	2 - 2.2	%	ASTM D 955



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PHYSICAL			
Mold Shrinkage, xflow, 24 hrs (5)	2 - 2.2	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	2 - 2.19	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	2 - 2.19	%	ISO 294
Wear Factor Washer	12	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.22	-	ASTM D 3702 Modified
Static COF	0.09	-	ASTM D 3702 Modified
Density	1.52	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.37	%	ISO 62



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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