



LNP™ LUBRICOMP™ Compound KI001XXJ

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound KL-4410 HC

Product reorder name: KI001XXJ

LNP LUBRICOMP KI001XXJ is a compound based on Acetal containing 2% Silicone. Added features of this grade include: Wear Resistant, Healthcare.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	560	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	530	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	16	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	46	%	ASTM D 638
Tensile Modulus, 50 mm/min	28000	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	760	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	23200	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	158	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	8	cm-kgf/cm	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	106	°C	ASTM D 648
PHYSICAL			
Moisture Absorption, 50% RH, 24 hrs	0.24	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	2.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2.4	%	ASTM D 955
Wear Factor Washer	22	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.44	-	ASTM D 3702 Modified
Static COF	0.34	-	ASTM D 3702 Modified
Density	1.4	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