



LNP™ LUBRICOMP™ Compound KCL34A

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound KCL-4034 D

Product reorder name: KCL34A

LNP LUBRICOMP KCL34A is a compound based on Acetal Homopolymer resin containing 15% PTFE, 20% Carbon Fiber. Added features of this material include: Wear Resistant, Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	890	kgf/cm ²	ASTM D 638
Tensile Stress, break	890	kgf/cm ²	ASTM D 638
Tensile Strain, yield	0.7	%	ASTM D 638
Tensile Strain, break	0.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	175700	kgf/cm ²	ASTM D 638
Flexural Stress	1120	kgf/cm ²	ASTM D 790
Flexural Modulus	133500	kgf/cm ²	ASTM D 790
Tensile Stress, yield	88	MPa	ISO 527
Tensile Stress, break	88	MPa	ISO 527
Tensile Strain, yield	0.7	%	ISO 527
Tensile Strain, break	0.7	%	ISO 527
Tensile Modulus, 1 mm/min	15510	MPa	ISO 527
Flexural Stress	117	MPa	ISO 178
Flexural Modulus	15000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	27	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	44	cm-kgf	ASTM D 3763
Multiaxial Impact	19	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	16	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	175	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	171	°C	ASTM D 648
CTE, -40°C to 40°C, flow	6.66E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.7E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	6.6E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.7E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	175	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	170	°C	ISO 75/Af
PHYSICAL			
Density	1.56	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.3	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.73	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.3	%	ISO 294
Wear Factor Washer	69	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.35	-	ASTM D 3702 Modified
Static COF	0.32	-	ASTM D 3702 Modified
Density	1.55	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	6.E+00	Ohm	ASTM D 257



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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