LNP™ LUBRICOMP™ COMPOUND KCL34A

KCL-4034 D
REGION ASIA

DESCRIPTION

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 PROPERTY VALUES

Revision 20191114

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	87	MPa	ASTM D 638
Tensile Stress, break	87	MPa	ASTM D 638
Tensile Strain, yield	0.7	%	ASTM D 638
Tensile Strain, break	0.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	17230	MPa	ASTM D 638
Flexural Stress	110	MPa	ASTM D 790
Flexural Modulus	13100	MPa	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	267	J/m	ASTM D 4812
Izod Impact, notched, 23°C	53	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	4	J	ASTM D 3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	16	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	175	°C	ASTM D 648
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/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.3	%	ASTM D 570

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, flow, 24 hrs	0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.3	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.73	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.3	%	ISO 294
Wear Factor Washer	69	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.35	-	ASTM D 3702 Modified: Manual
Static COF	0.32	-	ASTM D 3702 Modified: Manual
Density	1.55	g/cm³	ISO 1183

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