LNP™ LUBRICOMP™ COMPOUND AL002

AL-4020
REGION ASIA

DESCRIPTION

LNP* LUBRICOMP* AL002 is a compound based on Acrylonitrile Butadiene Styrene resin containing 10% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20190607

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	37	MPa	ASTM D 638
Tensile Stress, break	32	MPa	ASTM D 638
Tensile Strain, yield	2.6	%	ASTM D 638
Tensile Strain, break	21	%	ASTM D 638
Tensile Modulus, 50 mm/min	2130	MPa	ASTM D 638
Flexural Stress	62	MPa	ASTM D 790
Flexural Modulus	2190	MPa	ASTM D 790
Tensile Stress, yield	37	MPa	ISO 527
Tensile Stress, break	32	MPa	ISO 527
Tensile Strain, yield	2.2	%	ISO 527
Tensile Strain, break	32.2	%	ISO 527
Tensile Modulus, 1 mm/min	1940	MPa	ISO 527
Flexural Stress	63	MPa	ISO 178
Flexural Modulus	2200	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	843	J/m	ASTM D 4812
Izod Impact, notched, 23°C	58	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	42	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	91	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	89	°C	ASTM D 648
CTE, -40°C to 40°C, flow	9.54E-05	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	9.6E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	9.5E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	92	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	84	°C	ISO 75/Af
Relative Temp Index, Elec (1)	60	°C	UL 746B
Relative Temp Index, Mech w/impact (1)	60	°C	UL 746B
Relative Temp Index, Mech w/o impact (1)	60	°C	UL 746B
PHYSICAL			
Density	1.1	g/cm³	ASTM D 792

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, flow, 24 hrs	0.5 – 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.5 – 0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.5 – 0.7	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.5 – 0.7	%	ISO 294
Density	1.11	g/cm³	ISO 1183
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-101343853	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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