

LNP* Lubricomp* Compound AL002

Americas: COMMERCIAL

Also known as: AL-4020
Product Reorder Name: AL002

LNP LUBRICOMP* AL002 is a compound based on Acrylonitrile Butadiene Styrene resin containing PTFE. Added features of this material include: Internally Lubricated.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
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	Value	Unit	Standard
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/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL	Value	Unit	Standard
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
PHYSICAL	Value	Unit	Standard
Density	1.1	g/cm ³	ASTM D 792
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/cm ³	ISO 1183

Source GMD, last updated:03/31/2005

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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