

# LNPT<sup>™</sup> LUBRICOMP<sup>™</sup> COMPOUND AL001

AL-4010

## DESCRIPTION

LNP LUBRICOMP AL001 compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 5% PTFE. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant
Fillers	Unreinforced, PTFE
Polymer Types	Acrylonitrile Butadiene Styrene (ABS)
Processing Techniques	Injection Molding

  

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

## TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL <sup>(1)</sup></b>			
Tensile Stress, break	39	MPa	ASTM D638
Tensile Strain, break	15	%	ASTM D638
Flexural Stress	69	MPa	ASTM D790
Flexural Modulus	2460	MPa	ASTM D790
<b>IMPACT <sup>(1)</sup></b>			
Izod Impact, unnotched, 23°C	587	J/m	ASTM D4812
Izod Impact, notched, 23°C	101	J/m	ASTM D256
<b>THERMAL <sup>(1)</sup></b>			
HDT, 1.82 MPa, 3.2mm, unannealed	80	°C	ASTM D648
Relative Temp Index, Elec <sup>(2)</sup>	60	°C	UL 746B
Relative Temp Index, Mech w/impact <sup>(2)</sup>	60	°C	UL 746B
Relative Temp Index, Mech w/o impact <sup>(2)</sup>	60	°C	UL 746B
<b>PHYSICAL <sup>(1)</sup></b>			
Density	1.09	g/cm <sup>3</sup>	ASTM D792
Mold Shrinkage, flow, 24 hrs <sup>(3)</sup>	0.7	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs <sup>(3)</sup>	0.7	%	ASTM D955
<b>FLAME CHARACTERISTICS <sup>(2)</sup></b>			
UL Yellow Card Link	<a href="#">E207780-101345218</a>	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>INJECTION MOLDING <sup>(4)</sup></b>			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.05 – 0.1	%	
Melt Temperature	260	°C	
Front - Zone 3 Temperature	265 – 275	°C	
Middle - Zone 2 Temperature	230 – 245	°C	
Rear - Zone 1 Temperature	205 – 215	°C	
Mold Temperature	70 – 80	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) 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.
- (3) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
- (4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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