



LNP™ LUBRICOMP™ Compound AL001

Americas: COMMERCIAL

Also known as: LNP™ LUBRICOMP™ Compound AL-4010 HP
Product reorder name: AL001

LNP™ LUBRICOMP™ AL001 is a compound based on Acrylonitrile Butadiene Styrene resin containing 5% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTIES¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	400	kgf/cm²	ASTM D 638
Tensile Strain, break	15	%	ASTM D 638
Flexural Stress	710	kgf/cm²	ASTM D 790
Flexural Modulus	25100	kgf/cm²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	59	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	10	cm-kgf/cm	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	80	°C	ASTM D 648
PHYSICAL			
Density	1.09	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7	%	ASTM D 955

(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.

Source GMD, last updated:
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(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.

(5) 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.

(6) Needs hard coat to consistently pass 60 sec Vertical Burn.



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
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

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