LNP™ LUBRICOMP™ COMPOUND AL001

AL-4010

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20200109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	39	MPa	ASTM D 638
Tensile Strain, break	15	%	ASTM D 638
Flexural Stress	69	MPa	ASTM D 790
Flexural Modulus	2460	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	587	J/m	ASTM D 4812
Izod Impact, notched, 23°C	101	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	80	°C	ASTM D 648
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	1.09	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7	%	ASTM D 955
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-101345218	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94
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	

(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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