LNP™ LUBRICOMP™ COMPOUND AL003

AL-4030
REGION ASIA

DESCRIPTION

LNP* LUBRICOMP* AL003 is a compound based on Acrylonitrile Butadiene Styrene resin containing 15% PTFE. Added feature of this material is: Wear Resistant.

TYPICAL PROPERTY VALUES

Revision 20191016

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	35	MPa	ASTM D 638
Tensile Stress, break	32	MPa	ASTM D 638
Tensile Strain, yield	2.3	%	ASTM D 638
Tensile Strain, break	14.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	2410	MPa	ASTM D 638
Flexural Stress	62	MPa	ASTM D 790
Flexural Modulus	2060	MPa	ASTM D 790
Tensile Stress, yield	35	MPa	ISO 527
Tensile Stress, break	32	MPa	ISO 527
Tensile Strain, yield	2.7	%	ISO 527
Tensile Strain, break	11.6	%	ISO 527
Tensile Modulus, 1 mm/min	2280	MPa	ISO 527
Flexural Stress	61	MPa	ISO 178
Flexural Modulus	2000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	202	J/m	ASTM D 4812
Izod Impact, notched, 23°C	58	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	11	J	ASTM D 3763
Multiaxial Impact	8	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	21	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
PHYSICAL			
Density	1.13	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.6 – 0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.8 – 1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.6 – 0.8	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.8 – 1	%	ISO 294
Density	1.13	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.31	%	ISO 62
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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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