

LNP™ LUBRICOMP™ AL003 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* AL003 is a compound based on Acrylonitrile Butadiene Styrene resin containing 15% PTFE. Added feature of this material is: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound AL-4030
Product reorder name: AL003

General Information			
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.60 to 0.80	%	
Across Flow : 24 hr	0.80 to 1.0	%	
Water Absorption			
24 hr, 50% RH	0.20	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.31	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2410	MPa	ASTM D638
--	2290	MPa	ISO 527-2/1
Tensile Strength			
Yield	35.9	MPa	ASTM D638
Yield	35.0	MPa	ISO 527-2
Break	32.4	MPa	ASTM D638
Break	32.0	MPa	ISO 527-2
Tensile Elongation			
Yield	2.3	%	ASTM D638
Yield	2.7	%	ISO 527-2
Break	15	%	ASTM D638
Break	12	%	ISO 527-2
Flexural Modulus			
--	2060	MPa	ASTM D790
--	2000	MPa	ISO 178
Flexural Strength			

--	62.1	MPa	ASTM D790
--	61.9	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.22		
vs. Itself - Static	0.11		
Wear Factor - Washer	100	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C ²	5.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	200	J/m	ASTM D4812
23°C ³	21	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	11.4	J	ASTM D3763
--	8.23	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	77.2	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	81.0	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	9.5E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	9.6E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	9.4E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	9.5E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050 to 0.10	%	
Rear Temperature	204 to 216	°C	
Middle Temperature	232 to 243	°C	
Front Temperature	266 to 277	°C	
Processing (Melt) Temp	260	°C	
Mold Temperature	71.1 to 82.2	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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