

LNP™ LUBRICOMP™ AL002 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* AL002 is a compound based on Acrylonitrile Butadiene Styrene resin containing 10% PTFE. Added feature of this material is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound AL-4020

Product reorder name: AL002

General Information			
UL YellowCard	E121562-101344529		
Additive	PTFE Lubricant (10%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.10	g/cm ³	ASTM D792
--	1.11	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.50 to 0.70	%	
Across Flow : 24 hr	0.50 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2130	MPa	ASTM D638
--	1950	MPa	ISO 527-2/1
Tensile Strength			
Yield	37.2	MPa	ASTM D638
Yield	37.1	MPa	ISO 527-2
Break	32.4	MPa	ASTM D638
Break	32.2	MPa	ISO 527-2
Tensile Elongation			
Yield	2.6	%	ASTM D638
Yield	2.2	%	ISO 527-2
Break	21	%	ASTM D638
Break	32	%	ISO 527-2
Flexural Modulus	2200	MPa	ASTM D790, ISO 178
Flexural Strength			
--	62.1	MPa	ASTM D790
--	63.8	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C ²	5.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	840	J/m	ASTM D4812
23°C ³	42	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	91.7	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	92.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	89.4	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	84.0	°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	9.5E-5	cm/cm/°C	ASTM E831, 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		
5.	80*10*4 mm		

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