

LNP™ LUBRICOMP™ AL002 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP LUBRICOMP AL002 is a compound based on Acrylonitrile Butadiene Styrene resin containing PTFE. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound AL-4020
Product reorder name: AL002

General Information			
UL YellowCard	E207780-101343853		
Additive	PTFE lubricant		
Features	Lubrication		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.10	g/cm ³	ASTM D792
--	1.11	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.50 - 0.70	%	ASTM D955
Transverse flow: 24 hours	0.50 - 0.70	%	ASTM D955
Vertical flow direction: 24 hours	0.50 - 0.70	%	ISO 294-4
Flow direction: 24 hours	0.50 - 0.70	%	ISO 294-4
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
Fracture	32.4	MPa	ASTM D638
Fracture	32.2	MPa	ISO 527-2
Tensile Elongation			
Yield	2.6	%	ASTM D638
Yield	2.2	%	ISO 527-2
Fracture	21	%	ASTM D638
Fracture	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, 3.20mm	91.7	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	92.0	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	89.4	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	84.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
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
Lateral: -40 to 40°C	9.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
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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