

LNP™ LUBRICOMP™ AL003 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* AL003 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-4030

Product reorder name: AL003

General Information			
Additive	PTFE lubricant		
Features	Lubrication		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.60 - 0.80	%	ASTM D955
Transverse flow: 24 hours	0.80 - 1.0	%	ASTM D955
Vertical flow direction: 24 hours	0.80 - 1.0	%	ISO 294-4
Flow direction: 24 hours	0.60 - 0.80	%	ISO 294-4
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
Fracture	32.4	MPa	ASTM D638
Fracture	32.0	MPa	ISO 527-2
Tensile Elongation			
Yield	2.3	%	ASTM D638
Yield	2.7	%	ISO 527-2
Fracture	15	%	ASTM D638
Fracture	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
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
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		

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