

LNP™ LUBRICOMP™ 9X06483 compound

Polyamide 46

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* 9X06483 is a compound based on a Nylon 4/6 containing PTFE. Added features of this grade are: Heat Stabilized, Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound STN-L-4030 HS

Product reorder name: 9X06483

General Information			
Additive	Heat Stabilizer		
	PTFE Lubricant		
Features	Good Wear Resistance		
	Heat Stabilized		
	Lubricated		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.29	g/cm ³	ASTM D792
--	1.28	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 3.0	%	
Across Flow : 24 hr	2.0 to 4.0	%	
Water Absorption			
24 hr, 50% RH	1.8	%	ASTM D570
Equilibrium, 23°C, 50% RH	2.7	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3130	MPa	ASTM D638
--	3010	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	80.0	MPa	ASTM D638
Yield	78.0	MPa	ISO 527-2/5
Break ³	74.0	MPa	ASTM D638
Break	76.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.8	%	ASTM D638
Yield	6.5	%	ISO 527-2/5
Break ⁵	5.9	%	ASTM D638
Break	6.6	%	ISO 527-2/5
Flexural Modulus			

50.0 mm Span ⁶	2960	MPa	ASTM D790
-- ⁷	2800	MPa	ISO 178
Flexural Stress	101	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.32		
vs. Itself - Static	0.32		
Wear Factor			ASTM D3702 Modified
Ring	-0.0500	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	11.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	52	J/m	ASTM D256
23°C ⁸	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	920	J/m	ASTM D4812
23°C ⁹	56	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	3.60	J	ASTM D3763
--	0.800	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	283	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	276	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	151	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	92.0	°C	ISO 75-2/Af
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	80*10*4		
9.	80*10*4		
10.	80*10*4 mm		
11.	80*10*4 mm		

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