

LNP™ LUBRICOMP™ VN001 compound

Polyamide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP VN001 is a compound based on Super Tough Nylon containing 2% MOS2. Added feature of th is grade is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound VL-4210 D

Product reorder name: VN001

General Information			
Additive	Molybdenum Disulfide Lubricant (2%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.0 to 5.0	%	
Across Flow : 24 hr	2.0 to 5.0	%	
Water Absorption			
24 hr, 50% RH	0.80	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2290	MPa	ASTM D638
--	2390	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	53.9	MPa	ASTM D638
Yield	56.4	MPa	ISO 527-2/5
Break ³	48.3	MPa	ASTM D638
Break	53.8	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	38	%	ASTM D638
Yield	5.3	%	ISO 527-2/5
Break ⁵	41	%	ASTM D638
Break	28	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	1910	MPa	ASTM D790
-- ⁷	2080	MPa	ISO 178
Flexural Stress	69.6	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified

vs. Itself - Dynamic	0.79		
vs. Itself - Static	0.36		
Flexural Strain at Break ⁸	4.0	%	ISO 178
Wear Factor - Washer	71.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	160	J/m	ASTM D256
23°C ⁹	16	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1700	J/m	ASTM D4812
23°C ¹⁰	180	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	22.3	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	216	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	210	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	65.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	64.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.2E-4	cm/cm/°C	
Transverse : -30 to 30°C	1.2E-4	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15	%	
Rear Temperature	260 to 271	°C	
Middle Temperature	277 to 288	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	282 to 293	°C	
Mold Temperature	93.3 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
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.	2 mm/min		
9.	80*10*4		

10.	80*10*4
11.	80*10*4 mm
12.	80*10*4 mm

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