

LNP™ LUBRICOMP™ NL001 compound

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* NL001 is a compound based on PC+ABS resin containing 5% PTFE. Added features include: Wear Resistant, Suitable for Thin Wall Applications.

Also known as: LNP* LUBRICOMP* Compound PCA-L-4010

Product Reorder name: NL001

General Information			
UL YellowCard	E121562-101344542		
Additive	PTFE Lubricant (5%)		
Features	Good Wear Resistance		
	Lubricated		
Uses	Thin-walled Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.14	g/cm ³	ASTM D792
--	1.10	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	26.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2410	MPa	ASTM D638
--	2300	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	53.1	MPa	ASTM D638
Yield	45.0	MPa	ISO 527-2/5
Yield	50.0	MPa	ISO 527-2/50
Break ³	42.7	MPa	ASTM D638
Break	40.0	MPa	ISO 527-2/5, ISO 527-2/50
Tensile Elongation			
Yield ⁴	3.6	%	ASTM D638
Yield	4.0	%	ISO 527-2/5, ISO 527-2/50
Break ⁵	24	%	ASTM D638
Break	45	%	ISO 527-2/5
Break	20	%	ISO 527-2/50
Flexural Modulus			

50.0 mm Span ⁶	2440	MPa	ASTM D790
-- ⁷	2500	MPa	ISO 178
Flexural Stress			
--	80.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	86.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹			ISO 179/1eA
-30°C	10	kJ/m ²	
23°C	13	kJ/m ²	
Notched Izod Impact			
23°C	160	J/m	ASTM D256
-30°C ¹⁰	8.0	kJ/m ²	ISO 180/1A
23°C ¹¹	10	kJ/m ²	ISO 180/1A
Instrumented Dart Impact (23°C, Total Energy)	42.9	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	116	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	114	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	98.9	°C	ASTM D648
1.8 MPa, Unannealed, 100 mm Span ¹³	95.0	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	113	°C	ISO 306/B50
--	115	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 80°C	7.0E-5	cm/cm/°C	
Transverse : 23 to 80°C	8.7E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	21	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	232 to 243	°C	
Middle Temperature	249 to 260	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	249 to 271	°C	
Mold Temperature	37.8 to 82.2	°C	
Back Pressure	0.172 to 0.344	MPa	

Screw Speed	30 to 60	rpm
NOTE		
1.	50 mm/min	
2.	Type I, 50 mm/min	
3.	Type I, 50 mm/min	
4.	Type I, 50 mm/min	
5.	Type I, 50 mm/min	
6.	1.3 mm/min	
7.	2.0 mm/min	
8.	1.3 mm/min	
9.	80*10*4 sp=62mm	
10.	80*10*4	
11.	80*10*4	
12.	80*10*4 mm	
13.	120*10*4 mm	

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