LNP™ LUBRICOMP™ NL001 compound

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* NL001 is a wear resistant PC+ABS blend, suitable for thin wall applications.
Also known as: LNP* LUBRICOMP* Compound PCA-L-4010
Product reorder name: NL001

General Information			
UL YellowCard	E45329-101344461		
Features	Good wear resistance		
Uses	Thin wall parts		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.14	g/cm³	ASTM D792
--	1.10	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	26.0	cm³/10min	ISO 1133
Molding Shrinkage - Flow [1]	0.50 - 0.70	%	Internal method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [2]	2410	MPa	ASTM D638
--	2300	MPa	ISO 527-2/1
Tensile Strength			
Yield [3]	53.0	MPa	ASTM D638
Yield	45.0	MPa	ISO 527-2/5
Yield	50.0	MPa	ISO 527-2/50
Fracture [4]	43.0	MPa	ASTM D638
Fracture	40.0	MPa	ISO 527-2/5, ISO 527-2/50
Tensile Elongation			
Yield [5]	3.6	%	ASTM D638
Yield	4.0	%	ISO 527-2/5, ISO 527-2/50
Fracture [6]	24	%	ASTM D638
Fracture	45	%	ISO 527-2/5
Fracture	20	%	ISO 527-2/50
Flexural Modulus			
50.0mm span [7]	2440	MPa	ASTM D790
-- [8]	2500	MPa	ISO 178
Flexural Stress			

--	80.0	MPa	ISO 178
Yield, 50.0mm span [9]	86.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [10]			ISO 179/1eA
-30°C	10	kJ/m²	ISO 179/1eA
23°C	13	kJ/m²	ISO 179/1eA
Notched Izod Impact [11]			ISO 180/1A
-30°C	8.0	kJ/m²	ISO 180/1A
23°C	10	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	116	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span [12]	114	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	99.0	°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
Ball Pressure Test			IEC 60695-10-2
75°C	Pass		IEC 60695-10-2
100°C [14]	Pass		IEC 60695-10-2
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	7.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	8.7E-5	cm/cm/°C	ISO 11359-2
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**
Flame Rating			UL 94
1.60 mm, Testing by SABIC	HB		UL 94
3.00 mm, Testing by SABIC	HB		UL 94
Oxygen Index	21	%	ISO 4589-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature	90.0 - 100	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 - 80.0	°C	
Rear Temperature	210 - 240	°C	
Middle Temperature	230 - 270	°C	
Front Temperature	230 - 270	°C	
Nozzle Temperature	220 - 260	°C	
Processing (Melt) Temp	240 - 270	°C	

Mold Temperature	60.0 - 90.0	°C

NOTE	
1.	Tensile Bar
2.	50 mm/min
3.	Type 1, 50mm/min
4.	Type 1, 50mm/min
5.	Type 1, 50mm/min
6.	Type 1, 50mm/min
7.	1.3 mm/min
8.	2.0 mm/min
9.	1.3 mm/min
10.	80*10*4 sp=62mm
11.	80*10*4
12.	80*10*4 mm
13.	120*10*4 mm
14.	Approximate maximum

Recommended distributors for this material

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