

LNP™ LUBRICOMP™ WI001 compound

Polybutylene Terephthalate

SABIC Innovative Plastics Europe

Message:

LNP LUBRICOMP WI001 is a compound based on PBT containing 2% Silicone. Added feature of this grade is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound WL-4410

Product reorder name: WI001

General Information			
UL YellowCard	E121562-101284325		
Additive	Silicone lubricant (2%)		
Features	Good wear resistance		
	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	2.0 - 4.0	%	ASTM D955
Transverse flow: 24 hours	2.0 - 4.0	%	ASTM D955
Water Absorption			
24 hr, 50% RH	0.060	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.090	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2720	MPa	ASTM D638
--	2550	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	50.0	MPa	ASTM D638
Yield	53.0	MPa	ISO 527-2/5
Fracture ³	46.0	MPa	ASTM D638
Fracture	45.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.8	%	ASTM D638
Yield	3.0	%	ISO 527-2/5
Fracture ⁵	51	%	ASTM D638
Fracture	32	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁶	2620	MPa	ASTM D790
-- ⁷	2530	MPa	ISO 178
Flexural Stress			

--	81.0	MPa	ISO 178
Yield, 50.0mm span ⁸	88.0	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.31		ASTM D3702 Modified
With Self-Static	0.19		ASTM D3702 Modified
Wear Factor			ASTM D3702 Modified
Ring	0.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Washer	136	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	5.0	J/m	ASTM D256
23°C ⁹	47	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	940	J/m	ASTM D4812
23°C ¹⁰	62	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	10.0	J	ASTM D3763
--	8.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	202	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ¹¹	156	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	61.0	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹²	56.0	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -30 to 30°C	8.5E-5	cm/cm/°C	ASTM D696
Lateral: -30 to 30°C	8.8E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 - 232	°C	
Middle Temperature	243 - 254	°C	
Front Temperature	260 - 271	°C	
Processing (Melt) Temp	238 - 266	°C	
Mold Temperature	82.2 - 98.9	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		

4.	Type 1, 5.0 mm/min
5.	Type 1, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4
10.	80*10*4
11.	80*10*4 mm
12.	80*10*4 mm

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