

LNP™ LUBRICOMP™ WL003 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP WL003 is a compound based on PBT resin containing 15% PTFE. Added feature of this grade is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound WL-4030

Product reorder name: WL003

General Information			
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.40	g/cm ³	ASTM D792
--	1.39	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	2.0 to 3.0	%	
Across Flow : 24 hr	2.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.040	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2780	MPa	ASTM D638
--	2870	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	47.2	MPa	ASTM D638
Yield	47.2	MPa	ISO 527-2/5
Break ³	47.1	MPa	ASTM D638
Break	47.1	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	6.5	%	ASTM D638
Yield	5.8	%	ISO 527-2/5
Break ⁵	7.8	%	ASTM D638
Break	6.4	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2190	MPa	ASTM D790
-- ⁷	2500	MPa	ISO 178

Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.24		
vs. Itself - Static	0.16		
Wear Factor - Washer	20.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	32	J/m	ASTM D256
23°C ⁸	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	450	J/m	ASTM D4812
23°C ⁹	27	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	0.800	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	177	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	159	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	58.7	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	62.0	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 to 232	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	238 to 266	°C	
Mold Temperature	82.2 to 98.9	°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.	80*10*4		
9.	80*10*4		
10.	80*10*4 mm		
11.	80*10*4 mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

