

LNP™ LUBRICOMP™ WL0049 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP WL0049 is a compound based on PBT containing 20% PTFE. Added features include: Wear Resistant, Flame Retardant.

Also known as: LNP* LUBRICOMP* Compound WL0049

Product reorder name: WL0049

General Information			
UL YellowCard	E121562-101282606		
Additive	PTFE Lubricant (20%)		
Features	Flame Retardant		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 3.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.050	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	120	MPa	ASTM D638
--	2530	MPa	ISO 527-2/1
Tensile Stress			
Yield	42.0	MPa	ISO 527-2/5
Break ²	2.00	MPa	ASTM D638
Break	42.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ³	2.9	%	ASTM D638
Yield	3.0	%	ISO 527-2/5
Break ⁴	3.0	%	ASTM D638
Break	3.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁵	2500	MPa	ASTM D790
-- ⁶	2400	MPa	ISO 178
Flexural Stress			

--	71.0	MPa	ISO 178
Break, 50.0 mm Span ⁷	74.0	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.21		
vs. Itself - Static	0.11		
Wear Factor			ASTM D3702 Modified
Ring	-1.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	2.00	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	35	J/m	ASTM D256
23°C ⁸	2.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	290	J/m	ASTM D4812
23°C ⁹	18	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	3.50	J	ASTM D3763
--	1.12	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	134	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	134	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	91.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	79.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.1E-4	cm/cm/°C	
Transverse : -30 to 30°C	9.5E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	232 to 243	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	249 to 260	°C	
Processing (Melt) Temp	243 to 260	°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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		

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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

