

LNP™ LUBRICOMP™ GL003 compound

Polysulfone
SABIC Innovative Plastics

Message:

LNP LUBRICOMP GL003 is a compound based on Polysulfone resin containing PTFE. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound GL-4030
Product reorder name: GL003

General Information			
Additive	PTFE lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.76	%	Internal method
Flow: 24 hours	0.70 - 0.90	%	ASTM D955
Transverse flow	0.83	%	Internal method
Transverse flow: 24 hours	0.70 - 0.90	%	ASTM D955
Vertical flow direction: 24 hours	0.83	%	ISO 294-4
Flow direction: 24 hours	0.76	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Fracture	55.2	MPa	ASTM D638
Fracture ¹	55.8	MPa	ASTM D638
Fracture	55.0	MPa	ISO 527-2, ISO 527-2/5
Tensile Elongation			
Fracture	9.9	%	ASTM D638
Fracture ²	10	%	ASTM D638
Fracture	12	%	ISO 527-2, ISO 527-2/5
Flexural Modulus			
50.0mm span ³	2070	MPa	ASTM D790
--	2070	MPa	ASTM D790
--	2300	MPa	ISO 178
-- ⁴	2300	MPa	ISO 178
Flexural Strength			
--	75.8	MPa	ASTM D790
--	79.0	MPa	ISO 178
--	79.0	MPa	ISO 178
Yield, 50.0mm span ⁵	82.2	MPa	ASTM D790

Coefficient of Friction		ASTM D3702 Modified	
With self-dynamics	0.23	ASTM D3702 Modified	
With Self-Static	0.13	ASTM D3702 Modified	
Wear Factor - Washer	24.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	59	J/m	ASTM D256
23°C ⁶	6.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	890	J/m	ASTM D4812
23°C ⁷	55	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	178	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁸	179	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	170	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁹	169	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	327 - 338	°C	
Middle Temperature	338 - 349	°C	
Front Temperature	349 - 360	°C	
Processing (Melt) Temp	360 - 371	°C	
Mold Temperature	149	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	Type 1, 5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	1.3 mm/min		
4.	2.0 mm/min		
5.	1.3 mm/min		
6.	80*10*4		
7.	80*10*4		
8.	80*10*4 mm		
9.	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.

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

