

LNP™ LUBRICOMP™ GL003 compound

Polysulfone

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* GL003 is a compound based on Polysulfone resin containing 15% PTFE. Added feature of this material is: Wear Resistant.

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

Product reorder name: GL003

General Information			
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.70 to 0.90	%	ASTM D955
Across Flow : 24 hr	0.70 to 0.90	%	ASTM D955
Across Flow : 24 hr	0.83	%	ISO 294-4
Flow : 24 hr	0.76	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Break	55.2	MPa	ASTM D638
Break	55.0	MPa	ISO 527-2
Tensile Elongation			
Break	9.9	%	ASTM D638
Break	12	%	ISO 527-2
Flexural Modulus			
--	2070	MPa	ASTM D790
--	2300	MPa	ISO 178
Flexural Strength			
--	75.8	MPa	ASTM D790
--	79.0	MPa	ISO 178
Coefficient of Friction			
vs. Itself - Dynamic	0.23		
vs. Itself - Static	0.13		
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 ¹	6.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	890	J/m	ASTM D4812
23°C ²	55	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	178	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ³	179	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	170	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	169	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	327 to 338	°C	
Middle Temperature	338 to 349	°C	
Front Temperature	349 to 360	°C	
Processing (Melt) Temp	360 to 371	°C	
Mold Temperature	149	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	80*10*4		
2.	80*10*4		
3.	80*10*4 mm		
4.	80*10*4 mm		

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