

LNP™ LUBRICOMP™ GL004 compound

Polysulfone
SABIC Innovative Plastics

Message:

LNP* Lubricomp* GL004 is a compound based on Polysulfone resin containing 20% PTFE. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound GL-4040
Product reorder name: GL004

General Information			
Additive	PTFE lubricant (20%)		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183, ASTM D792
Molding Shrinkage			
Flow: 24 hours	0.70 - 0.90	%	ASTM D955
Transverse flow: 24 hours	0.70 - 0.90	%	ASTM D955
Lateral flow: 24 hours	0.82	%	ISO 294-4
Traffic: 24 hours	0.77	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2070	MPa	ASTM D638
--	1860	MPa	ISO 527-2/1
Tensile Strength			
Yield	50.3	MPa	ASTM D638
Yield	48.0	MPa	ISO 527-2
Fracture	49.6	MPa	ASTM D638
Fracture	47.0	MPa	ISO 527-2
Tensile Elongation			
Yield	4.7	%	ASTM D638
Yield	4.8	%	ISO 527-2
Fracture	5.8	%	ASTM D638
Fracture	6.4	%	ISO 527-2
Flexural Modulus			
--	2070	MPa	ASTM D790
--	2000	MPa	ISO 178
Flexural Stress	71.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
Dynamic	0.24		ASTM D3702 Modified
Static	0.10		ASTM D3702 Modified

Wear Factor - Washer	22.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	85	J/m	ASTM D256
23°C ²	6.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	580	J/m	ASTM D4812
23°C ³	38	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	13.1	J	ASTM D3763
--	5.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	177	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span ⁴	177	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	162	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁵	167	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	6.1E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	5.9E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	6.0E-5	cm/cm/°C	ISO 11359-2
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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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