

LNP™ LUBRICOMP™ LL004 compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP LUBRICOMP* LL004 is a compound based on Polyetheretherketone resin containing 20% PTFE. Added feature of this material is: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound LL-4040
Product reorder name: LL004

General Information			
Additive	PTFE Lubricant (20%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	1.3	%	
Across Flow : 24 hr	1.9	%	
Water Absorption			
24 hr, 50% RH	0.060	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.12	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2900	MPa	ASTM D638
--	3070	MPa	ISO 527-2/1
Tensile Strength			
Yield	74.8	MPa	ASTM D638
Yield	73.0	MPa	ISO 527-2
Break	69.6	MPa	ASTM D638
Break	69.0	MPa	ISO 527-2
Tensile Elongation			
Yield	5.8	%	ASTM D638
Yield	5.0	%	ISO 527-2
Break	23	%	ASTM D638
Break	12	%	ISO 527-2
Flexural Modulus			
--	2960	MPa	ASTM D790
--	3320	MPa	ISO 178
Flexural Strength	118	MPa	ASTM D790, ISO 178
Coefficient of Friction			ASTM D3702 Modified

vs. Itself - Dynamic	0.52		
vs. Itself - Static	0.43		
Wear Factor - Washer	128	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	96	J/m	ASTM D256
23°C ²	8.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1600	J/m	ASTM D4812
23°C ³	91	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	2.80	J	ASTM D3763
--	1.35	J	ISO 6603-2
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	370 to 380	°C	
Middle Temperature	380 to 400	°C	
Front Temperature	380 to 400	°C	
Mold Temperature	175 to 190	°C	
Back Pressure	0.300 to 0.700	MPa	
Screw Speed	60 to 100	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		

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

