

LNP™ LUBRICOMP™ LL004 compound

Polyetheretherketone
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* LL004 is a compound based on Polyetheretherketone resin containing PTFE. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound LL-4040
Product reorder name: LL004

General Information			
Additive	PTFE lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	1.3	%	ASTM D955
Transverse flow: 24 hours	1.9	%	ASTM D955
Vertical flow direction: 24 hours	1.9	%	ISO 294-4
Flow direction: 24 hours	1.3	%	ISO 294-4
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
Fracture	69.6	MPa	ASTM D638
Fracture	69.0	MPa	ISO 527-2
Tensile Elongation			
Yield	5.8	%	ASTM D638
Yield	5.0	%	ISO 527-2
Fracture	23	%	ASTM D638
Fracture	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
With self-dynamics	0.52		ASTM D3702 Modified
With Self-Static	0.43		ASTM D3702 Modified
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	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	349 - 360	°C	
Middle Temperature	366 - 377	°C	
Front Temperature	382 - 393	°C	
Processing (Melt) Temp	382 - 388	°C	
Mold Temperature	138 - 166	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	60 - 100	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		

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