

LNP™ LUBRICOMP™ LL003 compound

Polyetheretherketone
SABIC Innovative Plastics

Message:

LNP LUBRICOMP LL003 is a compound based on Polyetheretherketone resin containing 15% PTFE Lubricant. Added feature of this material is: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound LL-4030
Product reorder name: LL003

General Information			
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.90 to 2.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.078	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.089	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3010	MPa	ASTM D638
--	3080	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	64.4	MPa	ASTM D638
Yield	62.0	MPa	ISO 527-2/5
Break ³	64.4	MPa	ASTM D638
Break	62.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	4.6	%	ASTM D638
Yield	3.3	%	ISO 527-2/5
Break ⁵	4.6	%	ASTM D638
Break	3.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2940	MPa	ASTM D790
-- ⁷	2750	MPa	ISO 178
Flexural Stress	92.0	MPa	ISO 178

Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.43		
vs. Itself - Static	0.32		
Wear Factor - Washer	18.5	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	48	J/m	ASTM D256
23°C ⁸	5.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	720	J/m	ASTM D4812
23°C ⁹	38	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	3.10	J	ASTM D3763
--	0.800	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	156	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	156	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	146	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	147	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	4.7E-5	cm/cm/°C	
Transverse : -30 to 30°C	5.7E-5	cm/cm/°C	
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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	80*10*4		
9.	80*10*4		

10.	80*10*4 mm
11.	80*10*4 mm

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Recommended distributors for this material

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