

LNP™ LUBRICOMP™ LL004C compound

Polyetheretherketone
SABIC Innovative Plastics

Message:

LNP LUBRICOMP LL004C is a compound based on Polyetheretherketone resin containing 20% PTFE. Added features of this material include: Wear Resistant, Clean Compounding System.
Also known as: LNP* LUBRICOMP* Compound LL-4040 CCS
Product reorder name: LL004C

General Information			
Additive	PTFE Lubricant (20%)		
Features	Clean/High Purity		
	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
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2900	MPa	ASTM D638
--	3070	MPa	ISO 527-2/1
Tensile Strength			
Yield	74.5	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			
--	117	MPa	ASTM D790

--	118	MPa	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	1500	J/m	ASTM D4812
23°C ³	91	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	3.00	J	ASTM D3763
--	1.00	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		

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