

LNP™ LUBRICOMP™ LGL33 compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* LGL33 is a compound based on Polyetheretherketone resin containing Graphite and PTFE. Added feature of this grade is: Wear Resistant.

Also known as: LNP* LUBRICOMP* Compound PDX-L-90086

Product reorder name: LGL33

General Information			
Filler / Reinforcement	Graphite Fiber		
Additive	PTFE Lubricant		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.47	g/cm ³	
--	1.46	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.3	%	
Across Flow : 24 hr	1.5	%	
Water Absorption			
24 hr, 50% RH	0.030	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4310	MPa	ASTM D638
--	4290	MPa	ISO 527-2/1
Tensile Strength			
Break ²	65.0	MPa	ASTM D638
Break	65.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	3.9	%	ASTM D638
Break	3.8	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	4380	MPa	ASTM D790
-- ⁵	4250	MPa	ISO 178
Flexural Stress			
--	116	MPa	ISO 178

Break, 50.0 mm Span ⁶	119	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.36		
vs. Itself - Static	0.39		
Wear Factor			ASTM D3702 Modified
Ring	0.550	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Washer	46.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	44	J/m	ASTM D256
23°C ⁷	4.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	360	J/m	ASTM D4812
23°C ⁸	23	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.60	J	ASTM D3763
--	1.46	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	298	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	247	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	161	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	154	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	4.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.6E-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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		

7.	80*10*4
8.	80*10*4
9.	80*10*4 mm
10.	80*10*4 mm

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