

LNP™ LUBRICOMP™ LFL36E compound

Polyetheretherketone

SABIC Innovative Plastics

Message:

LNP LUBRICOMP LFL36E is a compound based on Polyetheretherketone containing 30% Glass Fiber, 15% PTFE. Added features of this material are: Wear Resistant, Easy Molding.

Also known as: LNP* LUBRICOMP* Compound LFL-4036 EM

Product reorder name: LFL36E

General Information			
UL YellowCard	E121562-101283797		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Moldability		
	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.64	g/cm³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12200	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	176	MPa	ASTM D638
Break ²	170	MPa	ASTM D638
Break	177	MPa	ISO 527-2/5
Tensile Elongation			
Yield ³	2.0	%	ASTM D638
Break ⁴	2.0	%	ASTM D638
Break	2.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁵	11700	MPa	ASTM D790
-- ⁶	11400	MPa	ISO 178
Flexural Strength ⁷ (Break, 50.0 mm Span)	263	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.49		
vs. Itself - Static	0.73		
Wear Factor			ASTM D3702 Modified
Ring	9.00	10^-10 in^5-min/ft-lb-hr	
Washer	64.0	10^-10 in^5-min/ft-lb-hr	
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	100	J/m	ASTM D256
Unnotched Izod Impact (23°C)	860	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	13.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	339	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁸	337	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	327	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	322	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.8E-5	cm/cm/°C	
Transverse : -30 to 30°C	3.6E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	349 to 360	°C	
Middle Temperature	366 to 377	°C	
Front Temperature	382 to 393	°C	
Processing (Melt) Temp	382 to 388	°C	
Mold Temperature	138 to 166	°C	
Back Pressure	0.344 to 0.689	MPa	
Screw Speed	60 to 100	rpm	
NOTE			
1.	Type I, 5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	1.3 mm/min		
6.	2.0 mm/min		
7.	1.3 mm/min		
8.	80*10*4 mm		
9.	80*10*4 mm		

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