LNP™ LUBRICOMP™ JFL34 compound

Polyethersulfone

SABIC Innovative Plastics

Message:

LNP LUBRICOMP JFL34 is a compound based on Polyethersulfone resin containing 20% Glass Fiber, 15% PTFE. Added feature of this grade is: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound JFL-4034
Product reorder name: JFL34

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.61	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.50	%	
Across Flow : 24 hr	0.50 to 0.70	%	
Water Absorption			
24 hr, 50% RH	0.35	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.52	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	7080	MPa	ASTM D638
--	7040	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	104	MPa	ASTM D638
Yield	103	MPa	ISO 527-2/5
Break [3]	97.0	MPa	ASTM D638
Break	94.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield [4]	2.5	%	ASTM D638
Yield	2.5	%	ISO 527-2/5
Break [5]	2.5	%	ASTM D638
Break	2.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [6]	6020	MPa	ASTM D790
-- [7]	6300	MPa	ISO 178

Flexural Stress			
--	147	MPa	ISO 178
Yield, 50.0 mm Span [8]	147	MPa	ASTM D790
Break, 50.0 mm Span [9]	146	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.46		
vs. Itself - Static	0.63		
Wear Factor			ASTM D3702 Modified
Ring	7.95	10^-10 in^5-min/ft-lb-hr	
Washer	58.0	10^-10 in^5-min/ft-lb-hr	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	73	J/m	ASTM D256
23°C [10]	7.5	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	540	J/m	ASTM D4812
23°C [11]	33	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	14.1	J	ASTM D3763
--	3.00	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	219	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [12]	220	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	212	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [13]	212	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	3.2E-5	cm/cm/°C	
Transverse : -30 to 30°C	4.1E-5	cm/cm/°C	
Injection	**Nominal Value**	**Unit**	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	343 to 354	°C	
Middle Temperature	360 to 371	°C	
Front Temperature	371 to 382	°C	
Processing (Melt) Temp	354 to 371	°C	
Mold Temperature	138 to 149	°C	
Back Pressure	0.344 to 0.689	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.	1.3 mm/min
9.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

Recommended distributors for this material

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