

LNP™ LUBRICOMP™ JFL36 compound

Polyethersulfone
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* JFL36 is a compound based on Polyethersulfone resin containing 30% Glass Fiber, 15% PTFE. Added featur of this material is: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound JFL-4036
Product reorder name: JFL36

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.40	%	ASTM D955
Across Flow : 24 hr	0.30 to 0.60	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.10 to 0.30	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.29	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10200	MPa	ASTM D638
--	9540	MPa	ISO 527-2/1
Tensile Strength			
Break	129	MPa	ASTM D638
Break	89.0	MPa	ISO 527-2
Tensile Elongation			
Break	1.9	%	ASTM D638
Break	1.5	%	ISO 527-2
Flexural Modulus			
--	9930	MPa	ASTM D790
--	10800	MPa	ISO 178
Flexural Strength			
--	179	MPa	ASTM D790
--	138	MPa	ISO 178

Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.46		
vs. Itself - Static	0.36		
Wear Factor - Washer	60.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	85	J/m	ASTM D256
23°C ²	9.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	360	J/m	ASTM D4812
23°C ³	24	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	9.40	J	ASTM D3763
--	2.47	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	208	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	210	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	2.3E-5	cm/cm/°C	
Transverse : -40 to 40°C	3.5E-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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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