

LNP™ LUBRICOMP™ JFL36 compound

Polyethersulfone
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* JFL36 is a compound based on Polyethersulfone resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.
Also known as: LNP* LUBRICOMP* Compound JFL-4036
Product reorder name: JFL36

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Lubrication		
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 hours	0.10 - 0.40	%	ASTM D955
Transverse flow: 24 hours	0.30 - 0.60	%	ASTM D955
Vertical flow direction: 24 hours	0.30 - 0.60	%	ISO 294-4
Flow direction: 24 hours	0.10 - 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	12200	MPa	ASTM D638
--	9540	MPa	ISO 527-2/1
Tensile Strength			
Fracture	93.8	MPa	ASTM D638
Fracture	89.0	MPa	ISO 527-2
Tensile Elongation (Break)	1.5	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	10300	MPa	ASTM D790
--	10800	MPa	ISO 178
Flexural Strength			
--	144	MPa	ASTM D790
--	138	MPa	ISO 178
Coefficient of Friction			
With self-dynamics	0.46		ASTM D3702 Modified
With Self-Static	0.36		ASTM D3702 Modified

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, 3.20mm	208	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	210	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	2.3E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	3.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	343 - 354	°C	
Middle Temperature	360 - 371	°C	
Front Temperature	371 - 382	°C	
Processing (Melt) Temp	354 - 371	°C	
Mold Temperature	138 - 149	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	60 - 100	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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