

LNP™ LUBRICOMP™ JFL36 compound

Polyethersulfone

SABIC Innovative Plastics

Message:

LNP LUBRICOMP JFL36 is a compound based on Polyethersulfone resin containing Glass Fiber, PTFE.

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		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.69	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.15 - 0.35	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9800	MPa	ISO 527-2/1
Tensile Stress (Break)	117	MPa	ISO 527-2/5
Tensile Strain (Break)	1.6	%	ISO 527-2/5
Flexural Modulus ²	7700	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
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 ³ (23°C)	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	30	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, unannealed, 64.0mm span	223	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	219	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	1.8E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	4.9E-5	cm/cm/°C	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.	Tensile Bar	
2.	2.0 mm/min	
3.	80*10*4	
4.	80*10*4	
5.	80*10*4 mm	

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