

LNP™ LUBRICOMP™ DFL36 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP DFL-4036 is a compound based on Polycarbonate resin containing Glass Fiber, PTFE.

Also known as: LNP* LUBRICOMP* Compound DFL-4036

Product reorder name: DFL36

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	1.54	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/5.0 kg)	8.00 - 12.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.10 - 0.30	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	120	MPa	ISO 527-2/5
Tensile Strain (Break)	2.7	%	ISO 527-2/5
Flexural Modulus ²			ISO 178
--	8600	MPa	ISO 178
60°C	8400	MPa	ISO 178
100°C	8100	MPa	ISO 178
120°C	7500	MPa	ISO 178
Flexural Stress			ISO 178
--	199	MPa	ISO 178
60°C	172	MPa	ISO 178
100°C	136	MPa	ISO 178
120°C	114	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.45		ASTM D3702 Modified
With Self-Static	0.41		ASTM D3702 Modified
Flexural Strain at Break ³			ISO 178
--	3.1	%	ISO 178
60°C	3.1	%	ISO 178
100°C	3.5	%	ISO 178
120°C	3.8	%	ISO 178
Wear Factor - Washer	22.0	10 ⁻¹⁰ in ⁴ -min/ft-lb-hr	ASTM D3702 Modified

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁴ (23°C)	16	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁵ (23°C)	55	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶ (1.8 MPa, Unannealed, 64.0 mm Span)	130	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	2.4E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	7.6E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm)	V-1		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 - 304	°C	
Middle Temperature	310 - 321	°C	
Front Temperature	321 - 332	°C	
Processing (Melt) Temp	304 - 327	°C	
Mold Temperature	82.2 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	2 mm/min		
4.	80*10*4		
5.	80*10*4		
6.	80*10*4 mm		

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