

LNP™ LUBRICOMP™ WFL36 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP LUBRICOMP WFL36 is a compound based on Polybutylene Terephthalate resin containing Glass Fiber, PTFE.

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

Product reorder name: WFL36

General Information			
UL YellowCard	E45329-101282616		
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	1.65	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	13.0 - 18.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.20 - 0.40	%	Internal method
Water Absorption			ISO 62
23°C, 24 hr	0.080	%	ISO 62
Equilibrium, 23°C, 50% RH	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8800	MPa	ISO 527-2/1
Tensile Stress (Break)	112	MPa	ISO 527-2/5
Tensile Strain (Break)	2.9	%	ISO 527-2/5
Flexural Modulus ²			ISO 178
--	8900	MPa	ISO 178
60°C	5800	MPa	ISO 178
100°C	4700	MPa	ISO 178
150°C	3600	MPa	ISO 178
Flexural Stress			ISO 178
--	200	MPa	ISO 178
60°C	127	MPa	ISO 178
100°C	103	MPa	ISO 178
150°C	75.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.57		ASTM D3702 Modified
With Self-Static	0.41		ASTM D3702 Modified
Flexural Strain at Break ³			ISO 178

--	3.1	%	ISO 178
60°C	4.6	%	ISO 178
100°C	5.1	%	ISO 178
150°C	5.5	%	ISO 178
Wear Factor - Washer	42.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-40°C ⁴	9.0	kJ/m ²	ISO 180/1A
23°C ⁵	9.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁶			ISO 180/1U
-40°C	60	kJ/m ²	ISO 180/1U
23°C	50	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			
0.45 MPa, unannealed, 64.0mm span	222	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	207	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	1.9E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	8.4E-5	cm/cm/°C	ISO 11359-2
Specific Heat	1750	J/kg/°C	ASTM E1269
Thermal Conductivity	0.26	W/m/K	ASTM D5930
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 - 232	°C	
Middle Temperature	243 - 254	°C	
Front Temperature	260 - 271	°C	
Processing (Melt) Temp	238 - 266	°C	
Mold Temperature	82.2 - 98.9	°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*3		
5.	80*10*4		
6.	80*10*4		
7.	80*10*4 mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

