

LNP™ LUBRICOMP™ EFL36 compound

Polyether Imide
SABIC Innovative Plastics

Message:

LNP LUBRICOMP* EFL36 is a compound based on Polyetherimide resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.

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

Product reorder name: EFL36

General Information			
UL YellowCard	E45329-101283857		
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	1.62	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (345°C/5.0 kg)	3.00 - 5.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction: 24 hours	0.26	%	ISO 294-4
Flow direction: 24 hours	0.060	%	ISO 294-4
Water Absorption			ISO 62
23°C, 24 hr	0.32	%	ISO 62
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	168	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus ¹			ISO 178
--	9000	MPa	ISO 178
80°C	8500	MPa	ISO 178
120°C	8200	MPa	ISO 178
150°C	8100	MPa	ISO 178
200°C	7300	MPa	ISO 178
Flexural Stress			ISO 178
--	216	MPa	ISO 178
80°C	182	MPa	ISO 178
120°C	167	MPa	ISO 178
150°C	141	MPa	ISO 178
200°C	85.0	MPa	ISO 178

Coefficient of Friction			ASTM D3702 Modified
With self-dynamics	0.45		ASTM D3702 Modified
With Self-Static	0.43		ASTM D3702 Modified
Flexural Strain at Break ²			ISO 178
--	2.7	%	ISO 178
80°C	2.5	%	ISO 178
120°C	2.6	%	ISO 178
150°C	2.5	%	ISO 178
200°C	2.0	%	ISO 178
Wear Factor - Washer	35.0	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 ³	10	kJ/m ²	ISO 180/1A
23°C ⁴	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁵			ISO 180/1U
-40°C	35	kJ/m ²	ISO 180/1U
23°C	35	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy	3.65	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶ (1.8 MPa, Unannealed, 64.0 mm Span)	204	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	2.8E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	4.0E-5	cm/cm/°C	ISO 11359-2
Specific Heat	1310	J/kg/°C	ASTM E1269
Thermal Conductivity	0.23	W/m/K	ASTM D5930
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 - 354	°C	
Middle Temperature	354 - 366	°C	
Front Temperature	366 - 377	°C	
Processing (Melt) Temp	360 - 366	°C	
Mold Temperature	121 - 149	°C	
Back Pressure	0.344 - 0.689	MPa	
Screw Speed	60 - 100	rpm	
NOTE			
1.	2.0 mm/min		
2.	2 mm/min		
3.	80*10*3		
4.	80*10*4		

5.	80*10*4
6.	80*10*4 mm

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

