

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	E207780-101283848		
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Lubrication		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.62	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	0.40 - 0.60	%	ASTM D955
Flow direction: 24 hours	0.21 - 0.24	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.15	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.22	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	12700	MPa	ASTM D638
--	11200	MPa	ISO 527-2/1
Tensile Strength			
Fracture	176	MPa	ASTM D638
Fracture	168	MPa	ISO 527-2
Tensile Elongation (Break)	2.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	11300	MPa	ASTM D790
--	11400	MPa	ISO 178
Flexural Strength			
--	253	MPa	ASTM D790
--	249	MPa	ISO 178
Coefficient of Friction			
With self-dynamics	0.46		ASTM D3702 Modified
With Self-Static	0.43		ASTM D3702 Modified

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			
23°C	120	J/m	ASTM D256
23°C ²	13	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	710	J/m	ASTM D4812
23°C ³	47	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	10.3	J	ASTM D3763
--	3.65	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	202	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	204	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	4.0E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	2.7E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	2.8E-5	cm/cm/°C	ISO 11359-2
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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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