

LNP™ LUBRICOMP™ ECL36 compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* ECL36 is a compound based on Polyetherimide resin containing 30% Carbon Fiber, 15% PTFE. Added feature of this material is: Wear Resistant.

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

Product reorder name: ECL36

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.48	g/cm ³	ASTM D792
--	1.50	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.040	%	
Across Flow : 24 hr	0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	21600	MPa	ISO 527-2/1
Tensile Strength			
Break	179	MPa	ASTM D638
Break	160	MPa	ISO 527-2
Tensile Elongation			
Break	1.7	%	ASTM D638
Break	1.2	%	ISO 527-2
Flexural Modulus			
--	19200	MPa	ASTM D790
--	16000	MPa	ISO 178
Flexural Strength			
--	231	MPa	ASTM D790
--	210	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.39		
vs. Itself - Static	0.48		
Wear Factor - Washer	31.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C ¹	5.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	270	J/m	ASTM D4812
23°C ²	18	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	208	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 to 354	°C	
Middle Temperature	354 to 366	°C	
Front Temperature	366 to 377	°C	
Processing (Melt) Temp	360 to 366	°C	
Mold Temperature	121 to 149	°C	
Back Pressure	0.344 to 0.689	MPa	
Screw Speed	60 to 100	rpm	
NOTE			
1.	80*10*4		
2.	80*10*4		

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



WECHAT