

LNP™ LUBRICOMP™ ECL36 compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP LUBRICOMP ECL36 is a compound based on Polyetherimide resin containing PTFE, Carbon Fiber. Added features of this material include: Internally Lubricated.

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

Product reorder name: ECL36

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE lubricant		
Features	Lubrication		
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			
Flow: 24 hours	0.040	%	ASTM D955
Transverse flow: 24 hours	0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	21600	MPa	ISO 527-2/1
Tensile Strength			
Fracture	179	MPa	ASTM D638
Fracture	160	MPa	ISO 527-2
Tensile Elongation			
Fracture	1.7	%	ASTM D638
Fracture	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			
With self-dynamics	0.39		ASTM D3702 Modified
With Self-Static	0.48		ASTM D3702 Modified
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
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 - 1.0E+6	ohms	ASTM D257
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.	80*10*4		
2.	80*10*4		

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Recommended distributors for this material

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