LNP™ LUBRICOMP™ ECL36XXQ compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP* LUBRICOMP* ECL36XXQ is a compound based on Polyetherimide containing 30% Carbon Fiber, 15% PTFE. Added feature of this material is: Wear Resistant.
Also known as: LNP* LUBRICOMP* Compound ECL36XXQ
Product reorder name: ECL36XXQ

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	1.39	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.010 to 0.050	%	
Across Flow : 24 hr	0.10 to 0.40	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	32900	MPa	ASTM D638
--	30400	MPa	ISO 527-2/1
Tensile Strength			
Break [2]	222	MPa	ASTM D638
Break	226	MPa	ISO 527-2/5
Tensile Elongation			
Break [3]	0.90	%	ASTM D638
Break	1.0	%	ISO 527-2/5
Flexural Modulus [4] (50.0 mm Span)	26300	MPa	ASTM D790
Flexural Strength [5] (Break, 50.0 mm Span)	324	MPa	ASTM D790
Poisson's Ratio	0.43		ASTM D638
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.39		
vs. Itself - Static	0.42		
Wear Factor - Washer	22.0	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	69	J/m	ASTM D256
Unnotched Izod Impact (23°C)	410	J/m	ASTM D4812

Instrumented Dart Impact (23°C, Total Energy)	11.7	J	ASTM D3763
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	1.0E+2 to 1.0E+4	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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	1.3 mm/min		

Recommended distributors for this material

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