

LNP* Lubricomp* Compound ECL36

Americas: COMMERCIAL

Also known as: ECL-4036
Product Reorder Name: ECL36

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

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL			
	Value	Unit	Standard
Tensile Stress, break	179	MPa	ASTM D 638
Tensile Strain, break	1.7	%	ASTM D 638
Flexural Stress	230	MPa	ASTM D 790
Flexural Modulus	19160	MPa	ASTM D 790
Tensile Stress, break	160	MPa	ISO 527
Tensile Strain, break	1.2	%	ISO 527
Tensile Modulus, 1 mm/min	21600	MPa	ISO 527
Flexural Stress	210	MPa	ISO 178
Flexural Modulus	16000	MPa	ISO 178
IMPACT			
	Value	Unit	Standard
Izod Impact, unnotched, 23°C	267	J/m	ASTM D 4812
Izod Impact, notched, 23°C	42	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	18	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
PHYSICAL			
	Value	Unit	Standard
Density	1.48	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.04	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.4	%	ASTM D 955
Wear Factor Washer	31	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.39	-	ASTM D 3702 Modified
Static COF	0.48	-	ASTM D 3702 Modified
Density	1.5	g/cm ³	ISO 1183
ELECTRICAL			
	Value	Unit	Standard
Surface Resistivity	1.E+01 - 1.E+06	Ohm	ASTM D 257

Source GMD, last updated:10/04/2004

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature		
Front - Zone 3 Temperature	360 - 365	°C
Middle - Zone 2 Temperature	365 - 375	°C
Rear - Zone 1 Temperature	355 - 365	°C
Rear - Zone 1 Temperature	345 - 355	°C

Mold Temperature	120 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm

Source GMD, last updated:10/04/2004

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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