LNP™ LUBRICOMP™ COMPOUND ECL36

ECL-4036
REGION ASIA

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
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			
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/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
PHYSICAL			
Density	1.48	g/cm³	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: Manual
Dynamic COF	0.39	-	ASTM D 3702 Modified: Manual
Static COF	0.48	-	ASTM D 3702 Modified: Manual
Density	1.49	g/cm³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+01 – 1.E+06	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4 – 6	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	360 – 365	°C	
Front - Zone 3 Temperature	365 – 375	°C	
Middle - Zone 2 Temperature	355 – 365	°C	
Rear - Zone 1 Temperature	345 – 355	°C	
Mold Temperature	120 – 150	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

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