

# LNP<sup>TM</sup> LUBRICOMP<sup>TM</sup> COMPOUND OFL36

OFL-4036  
REGION ASIA

## DESCRIPTION

LNP LUBRICOMP OFL36 is a compound based on PPS - Linear resin containing 30% Glass Fiber, 15% PTFE. Added features of this grade include: Wear Resistant.

INDUSTRY	SUB INDUSTRY
Building and Construction	Water Management
Electrical and Electronics	Electrical Devices and Displays, Electrical Components and Infrastructure
Healthcare	Patient Testing
Hydrocarbon and Energy	Fossil
Industrial	Industrial Material Handling

## TYPICAL PROPERTY VALUES

Revision 20201123

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
Tensile Stress, break	145	MPa	ASTM D 638
Tensile Strain, break	1.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	12600	MPa	ASTM D 638
Flexural Stress	200	MPa	ASTM D790
Flexural Modulus	11030	MPa	ASTM D790
Tensile Stress, break	124	MPa	ISO 527
Tensile Strain, break	1.4	%	ISO 527
Tensile Modulus, 1 mm/min	11500	MPa	ISO 527
Flexural Stress	197	MPa	ISO 178
Flexural Modulus	10950	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	550	J/m	ASTM D4812
Izod Impact, notched, 23°C	85	J/m	ASTM D 256
Instrumented Dart Impact Energy @ peak, 23°C	3	J	ASTM D3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	25	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
HDT, 1.82 MPa, 3.2mm, unannealed	266	°C	ASTM D 648
CTE, -40°C to 40°C, flow	0.0000234 – 0.00005003	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	4.86E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, flow	2.36E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	5.01E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	266	°C	ISO 75/Af
Relative Temp Index, Elec <sup>(1)</sup>	200	°C	UL 746B

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Relative Temp Index, Mech w/impact <sup>(1)</sup>	130	°C	UL 746B
Relative Temp Index, Mech w/o impact <sup>(1)</sup>	130	°C	UL 746B
<b>PHYSICAL</b>			
Density	1.7	g/cm <sup>3</sup>	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.01	%	ASTM D570
Mold Shrinkage, flow, 24 hrs	0.1 – 0.2	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs	0.3 – 0.5	%	ASTM D955
Mold Shrinkage, flow, 24 hrs	0.13 – 0.18	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.3 – 0.48	%	ISO 294
Wear Factor Washer	33	10 <sup>-4</sup> in <sup>3</sup> -min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.44	-	ASTM D 3702 Modified: Manual
Static COF	0.35	-	ASTM D 3702 Modified: Manual
Density	1.7	g/cm <sup>3</sup>	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.04	%	ISO 62
<b>ELECTRICAL</b>			
Comparative Tracking Index (UL) {PLC}	4	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 0	≥1.5	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥1.5	mm	UL 746A
High Voltage Arc Track Rate {PLC}	4	PLC Code	UL 746A
Arc Resistance, Tungsten {PLC}	7	PLC Code	ASTM D495
<b>FLAME CHARACTERISTICS <sup>(1)</sup></b>			
UL Yellow Card Link	<a href="#">E207780-101282823</a>	-	-
UL Yellow Card Link 2	<a href="#">E207780-101343867</a>	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.75	mm	UL 94
<b>INJECTION MOLDING</b>			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Melt Temperature	315 – 320	°C	
Front - Zone 3 Temperature	330 – 345	°C	
Middle - Zone 2 Temperature	320 – 330	°C	
Rear - Zone 1 Temperature	305 – 315	°C	
Mold Temperature	140 – 165	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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