

**Product Texts**

LNP LUBRICOMP UCL36S compound is based on Polyphthalamide (PPA) resin containing 15% PTFE, 30% carbon fiber. Added features of this grade include: Internally Lubricated, Wear Resistant, Heat Stabilized, Electrically Conductive.

UL Yellow Card Link [E207780-101345253](https://www.ul.com/yellow-card/E207780-101345253)

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Stress at break	214	MPa	ISO 527
Strain at break	1.2	%	ISO 527
Flexural modulus	22700	MPa	ISO 178
Flexural strength	334	MPa	ISO 178
Izod impact strength, +23°C, 4mm	39	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	8	kJ/m <sup>2</sup>	ISO 180/1A

<b>ASTM Data</b>			
Tensile Modulus	20130	MPa	ASTM D 638
Tensile Strength at Break	216	MPa	ASTM D 638
Elongation at Break	1.6	%	ASTM D 638
Flexural Modulus	18820	MPa	ASTM D 790
Flexural Strength	324	MPa	ASTM D 790
Izod Impact notched, 1/8 in	96	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	939	J/m	ASTM D 256

<b>Thermal properties</b>			
<b>ISO Data</b>			
Burning behav. at 1.5 mm nom. thickn. Thickness tested	HB 1.5	class mm	IEC 60695-11-10 -

<b>ASTM Data</b>			
DTUL @ 264 psi	279	°C	ASTM D 648

<b>Electrical properties</b>			
<b>ASTM Data</b>			
Surface Resistivity	1000000	Ohm	ASTM D 257

<b>Other properties</b>			
Density	1410	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.15	%	-
Melt temperature	315 - 330	°C	-
Mold temperature	150 - 170	°C	-
Zone 1	310 - 320	°C	-
Zone 2	315 - 325	°C	-
Zone 3	325 - 340	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Increased electrical conductivity

**Applications**

Automotive

**Regional Availability**

North America, Europe, Asia Pacific