

Product Texts

LNP LUBRICOMP UL002S compound is based on Polyphthalamide (PPA) resin containing 10% PTFE. Added features of this grade include: Heat Stabilized, Wear Resistant.

UL Yellow Card Link [E207780-103093685](https://www.ulprospector.com/PA/properties/UL002S)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	1.45	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3210	MPa	ISO 527
Yield stress	58	MPa	ISO 527
Yield strain	2.1	%	ISO 527
Stress at break	60	MPa	ISO 527
Strain at break	2.2	%	ISO 527
Izod impact strength, +23°C, 4mm	27	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	2	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3170	MPa	ASTM D 638
Tensile Strength at Yield	60	MPa	ASTM D 638
Tensile Strength at Break	60	MPa	ASTM D 638
Elongation at Yield	2.2	%	ASTM D 638
Elongation at Break	2.2	%	ASTM D 638
Flexural Modulus	2980	MPa	ASTM D 790
Izod Impact notched, 1/8 in	26	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	453	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at 1.5 mm nom. thickn. Thickness tested	V-2 1.5	class mm	IEC 60695-11-10 -

Other properties	Value	Unit	Test Standard
Humidity absorption	0.73	%	Sim. to ISO 62
Density	1260	kg/m ³	ISO 1183
Water Absorption, 24hr	0.47	%	ASTM D 570
Density	1250	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
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

Regional Availability

North America, Europe, Asia Pacific

Applications

Automotive