

Product Texts

LNP LUBRILOY UX98388 compound is based on Polyphthalamide (PPA) resin containing proprietary lubricant. Added features of this grade include: Wear Resistant.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2650	MPa	ISO 527
Yield stress	77	MPa	ISO 527
Yield strain	6.1	%	ISO 527
Stress at break	67	MPa	ISO 527
Flexural modulus	2430	MPa	ISO 178
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	10	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2824	MPa	ASTM D 638
Tensile Strength at Yield	77	MPa	ASTM D 638
Tensile Strength at Break	67	MPa	ASTM D 638
Elongation at Yield	5.5	%	ASTM D 638
Elongation at Break	12	%	ASTM D 638
Flexural Modulus	2200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	88	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	109	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	120	°C	ISO 75-1/-2
Vicat softening temperature, B	169	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	169	°C	ISO 306
Coeff. of linear therm. expansion, normal	91	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 66 psi	125	°C	ASTM D 648
DTUL @ 264 psi	109	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1100	kg/m ³	ISO 1183
Density	1110	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