

Product Texts

LNP LUBRILOY U2000A compound is based on Polyphthalamide (PPA) resin containing proprietary lubricant. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.7	%	ISO 294-4, 2577
Molding shrinkage, normal	1.7	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	1.7	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.7	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3530	MPa	ISO 527
Yield stress	78	MPa	ISO 527
Yield strain	3.4	%	ISO 527
Stress at break	78	MPa	ISO 527
Strain at break	3.4	%	ISO 527
Flexural modulus	2900	MPa	ISO 178
Flexural strength	109	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3440	MPa	ASTM D 638
Tensile Strength at Yield	81	MPa	ASTM D 638
Tensile Strength at Break	81	MPa	ASTM D 638
Elongation at Yield	3.6	%	ASTM D 638
Elongation at Break	3.6	%	ASTM D 638
Flexural Modulus	2750	MPa	ASTM D 790
Izod Impact notched, 1/8 in	58	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1340	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	103	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	183	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	163	°C	ASTM D 648
DTUL @ 264 psi	106	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1140	kg/m ³	ISO 1183
Water Absorption, 24hr	0.3	%	ASTM D 570
Density	1140	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.15	%	-
Melt temperature	310 - 315	°C	-
Mold temperature	120 - 150	°C	-
Zone 1	305 - 315	°C	-
Zone 2	305 - 315	°C	-
Zone 3	305 - 315	°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