



LNPTM LUBRILOY™ COMPOUND R2000A

RL

DESCRIPTION

LNP LUBRILOY R2000A compound is based on Nylon 6/6 resin containing proprietary lubricant. Added features of this grade include: Wear Resistant.

GENERAL INFORMATION	
Features	Wear resistant, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polyamide 66 (Nylon 66)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport /Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yield	47	MPa	ASTM D638
Tensile Stress, break	43	MPa	ASTM D638
Tensile Strain, yield	6	%	ASTM D638
Tensile Strain, break	38.6	%	ASTM D638
Tensile Modulus, 50 mm/min	1990	MPa	ASTM D638
Flexural Stress	67	MPa	ASTM D790
Flexural Modulus	1930	MPa	ASTM D790
Tensile Stress, yield	43	MPa	ISO 527
Tensile Stress, break	43	MPa	ISO 527
Tensile Strain, yield	8.8	%	ISO 527
Tensile Strain, break	29.6	%	ISO 527
Tensile Modulus, 1 mm/min	2100	MPa	ISO 527
Flexural Stress	69	MPa	ISO 178
Flexural Modulus	2200	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D4812
Izod Impact, notched, 23°C	74	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	6	J	ASTM D3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80°10°4 +23°C	137	kJ/m ²	ISO 180/1U
Izod Impact, notched 80°10°4 +23°C	6	kJ/m ²	ISO 180/1A

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
THERMAL ⁽¹⁾			
HDT, 0.45 MPa, 3.2 mm, unannealed	66	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	62	°C	ASTM D648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	67	°C	ISO 75/Af
Relative Temp Index, Elec ⁽²⁾	65	°C	UL 746B
Relative Temp Index, Mech w/impact ⁽²⁾	65	°C	UL 746B
Relative Temp Index, Mech w/o impact ⁽²⁾	65	°C	UL 746B
PHYSICAL ⁽¹⁾			
Density	1.02	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.3	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽³⁾	2.6	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽³⁾	2.6	%	ASTM D955
Mold Shrinkage, flow, 24 hrs ⁽³⁾	2.57	%	ISO 294
Mold Shrinkage, xflow, 24 hrs ⁽³⁾	2.6	%	ISO 294
Wear Factor Washer	12	10 ⁻⁴ in ³ /min/ft-lb-hr	ASTM D3702 Modified: Manual
Dynamic COF	0.31	-	ASTM D3702 Modified: Manual
Static COF	0.27	-	ASTM D3702 Modified: Manual
Density	1.02	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.43	%	ISO 62
FLAME CHARACTERISTICS ⁽²⁾			
UL Yellow Card Link	E121562-101283902	-	-
UL Yellow Card Link 2	E207780-101283851	-	-
UL Yellow Card Link 3	E45329-101283864	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94
INJECTION MOLDING ⁽⁴⁾			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	270 – 280	°C	
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	280 – 295	°C	
Rear - Zone 1 Temperature	265 – 275	°C	
Mold Temperature	80 – 95	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	