

Product Texts

LNP LUBRICOMP RN001S compound is based on Nylon 6/6 resin containing Molybdenum diSulfide (MoS₂). Added features of this grade include: Wear Resistant, Heat Stabilized.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.0	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3900	MPa	ISO 527
Yield stress	69	MPa	ISO 527
Yield strain	2	%	ISO 527
Stress at break	69	MPa	ISO 527
Strain at break	42.2	%	ISO 527
Flexural modulus	3400	MPa	ISO 178
Flexural strength	107	MPa	ISO 178
Izod impact strength, +23°C, 4mm	53	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A

ASTM Data	Value	Unit	Test Standard
Tensile Modulus	4130	MPa	ASTM D 638
Tensile Strength at Yield	84	MPa	ASTM D 638
Tensile Strength at Break	84	MPa	ASTM D 638
Elongation at Yield	2.9	%	ASTM D 638
Elongation at Break	3.8	%	ASTM D 638
Flexural Modulus	3440	MPa	ASTM D 790
Izod Impact notched, 1/8 in	26	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1110	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 0.45 MPa	223	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	231	°C	ASTM D 648
DTUL @ 264 psi	76	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1160	kg/m ³	ISO 1183
Density	1160	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.25	%	-
Melt temperature	275 - 290	°C	-
Mold temperature	80 - 95	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America