

Product Texts

LNP LUBRICOMP VN001 compound is based on Super Tough Nylon resin containing Molybdenum diSulfide (MoS₂). Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	3.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	3.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2380	MPa	ISO 527
Yield stress	56	MPa	ISO 527
Yield strain	5.2	%	ISO 527
Stress at break	53	MPa	ISO 527
Strain at break	28	%	ISO 527
Flexural modulus	2080	MPa	ISO 178
Izod impact strength, +23°C, 4mm	182	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	15	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2290	MPa	ASTM D 638
Tensile Strength at Yield	53	MPa	ASTM D 638
Tensile Strength at Break	48	MPa	ASTM D 638
Elongation at Yield	38	%	ASTM D 638
Elongation at Break	40.6	%	ASTM D 638
Flexural Modulus	1910	MPa	ASTM D 790
Izod Impact notched, 1/8 in	158	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1730	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	64	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	210	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	118	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	118	E-6/K	ASTM D 696
DTUL @ 66 psi	216	°C	ASTM D 648
DTUL @ 264 psi	65	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	1.1	%	Sim. to ISO 62
Density	1100	kg/m ³	ISO 1183
Water Absorption, 24hr	0.8	%	ASTM D 570
Density	1100	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	≤0.15	%	-
Melt temperature	280 - 295	°C	-
Mold temperature	95 - 110	°C	-
Zone 1	260 - 270	°C	-
Zone 2	275 - 290	°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, Europe, Asia Pacific