

Product Texts

LNP LUBRICOMP 9X06483 compound is based on a Nylon 4/6 resin containing PTFE. Added features of this grade include: Wear Resistant, Heat Stabilized.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	2	mm/mm	ASTM D 955
Mold Shrinkage, TD	3	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3000	MPa	ISO 527
Yield stress	78	MPa	ISO 527
Yield strain	6.5	%	ISO 527
Stress at break	76	MPa	ISO 527
Strain at break	6.6	%	ISO 527
Flexural modulus	2800	MPa	ISO 178
Flexural strength	101	MPa	ISO 178
Izod impact strength, +23°C, 4mm	56	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3130	MPa	ASTM D 638
Tensile Strength at Yield	80	MPa	ASTM D 638
Tensile Strength at Break	74	MPa	ASTM D 638
Elongation at Yield	5.8	%	ASTM D 638
Elongation at Break	5.9	%	ASTM D 638
Flexural Modulus	2960	MPa	ASTM D 790
Izod Impact notched, 1/8 in	52	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	924	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	92	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	276	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, TD	93.1	E-6/K	ASTM D 696
DTUL @ 66 psi	283	°C	ASTM D 648
DTUL @ 264 psi	151	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	2.7	%	Sim. to ISO 62
Density	1280	kg/m ³	ISO 1183
Water Absorption, 24hr	1.8	%	ASTM D 570
Density	1290	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	40	h	-
Processing humidity	≤0.05	%	-
Melt temperature	310 - 320	°C	-
Mold temperature	80 - 120	°C	-
Zone 1	280 - 295	°C	-
Zone 2	300 - 310	°C	-
Zone 3	310 - 320	°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