

Product Texts

LNP LUBRICOMP SFP36 compound is based on Nylon 12 resin containing 30% glass fiber, 15% PTFE/silicone. Added features of this grade include: Internally Lubricated, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	9070	MPa	ISO 527
Yield stress	129	MPa	ISO 527
Yield strain	2.9	%	ISO 527
Stress at break	129	MPa	ISO 527
Strain at break	3	%	ISO 527
Flexural modulus	7920	MPa	ISO 178
Flexural strength	191	MPa	ISO 178
Izod impact strength, +23°C, 4mm	58	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	14	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	9060	MPa	ASTM D 638
Tensile Strength at Yield	125	MPa	ASTM D 638
Tensile Strength at Break	117	MPa	ASTM D 638
Elongation at Yield	3.2	%	ASTM D 638
Elongation at Break	3.2	%	ASTM D 638
Flexural Modulus	7510	MPa	ASTM D 790
Izod Impact notched, 1/8 in	146	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1000	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	169	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	177	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	28.1	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	79.9	E-6/K	ASTM D 696
DTUL @ 66 psi	177	°C	ASTM D 648
DTUL @ 264 psi	172	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.22	%	Sim. to ISO 62
Density	1380	kg/m ³	ISO 1183
Water Absorption, 24hr	0.15	%	ASTM D 570
Density	1390	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	≤0.2	%	-
Melt temperature	225 - 240	°C	-
Mold temperature	70 - 80	°C	-
Zone 1	215 - 225	°C	-
Zone 2	220 - 230	°C	-
Zone 3	225 - 240	°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