

Product Texts

LNP LUBRICOMP QFL32 compound is based on Nylon 6/10 resin containing 10% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.8	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4440	MPa	ISO 527
Yield stress	86	MPa	ISO 527
Stress at break	79	MPa	ISO 527
Strain at break	3	%	ISO 527
Flexural modulus	3880	MPa	ISO 178
Flexural strength	128	MPa	ISO 178
Izod impact strength, +23°C, 4mm	23	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	1	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	4680	MPa	ASTM D 638
Tensile Strength at Break	85	MPa	ASTM D 638
Elongation at Break	3.1	%	ASTM D 638
Flexural Modulus	3850	MPa	ASTM D 790
Izod Impact notched, 1/8 in	38	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	367	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	189	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	215	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	56	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	120	E-6/K	ASTM D 696
DTUL @ 66 psi	218	°C	ASTM D 648
DTUL @ 264 psi	196	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.34	%	Sim. to ISO 62
Density	1250	kg/m ³	ISO 1183
Water Absorption, 24hr	0.24	%	ASTM D 570
Density	1250	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	270 - 275	°C	-
Mold temperature	80 - 95	°C	-
Zone 1	250 - 260	°C	-
Zone 2	260 - 270	°C	-
Zone 3	270 - 280	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific