

Product Texts

LNP LUBRICOMP DFL32P compound is based on Polycarbonate (PC) resin containing 10% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant, Exceptional Processing.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.6	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4500	MPa	ISO 527
Yield stress	77	MPa	ISO 527
Yield strain	2.9	%	ISO 527
Stress at break	75	MPa	ISO 527
Strain at break	3.2	%	ISO 527
Flexural modulus	4300	MPa	ISO 178
Flexural strength	123	MPa	ISO 178
Izod impact strength, +23°C, 4mm	35	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	10	kJ/m ²	ISO 180/1A

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	4780	MPa	ASTM D 638
Tensile Strength at Yield	76	MPa	ASTM D 638
Tensile Strength at Break	75	MPa	ASTM D 638
Elongation at Yield	2.8	%	ASTM D 638
Elongation at Break	3.3	%	ASTM D 638
Flexural Modulus	4240	MPa	ASTM D 790
Izod Impact notched, 1/8 in	110	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	605	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	133	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	139	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	34.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	75.1	E-6/K	ASTM D 696
DTUL @ 66 psi	140	°C	ASTM D 648
DTUL @ 264 psi	135	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1360	kg/m ³	ISO 1183
Water Absorption, 24hr	0.12	%	ASTM D 570
Density	1360	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	305 - 325	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	310 - 320	°C	-
Zone 3	320 - 330	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America