

**Product Texts**

LNP LUBRICOMP DFL38 compound is based on Polycarbonate (PC) resin containing 40% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant.

UL Yellow Card Link [E121562-101344609](https://www.ul.com/yellow-card/E121562-101344609)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	12900	MPa	ISO 527
Yield stress	127	MPa	ISO 527
Yield strain	1.9	%	ISO 527
Stress at break	127	MPa	ISO 527
Strain at break	1.9	%	ISO 527
Flexural modulus	11600	MPa	ISO 178
Flexural strength	192	MPa	ISO 178
Izod impact strength, +23°C, 4mm	42	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	13	kJ/m <sup>2</sup>	ISO 180/1A

<b>ASTM Data</b>			
Tensile Modulus	11760	MPa	ASTM D 638
Tensile Strength at Yield	102	MPa	ASTM D 638
Tensile Strength at Break	102	MPa	ASTM D 638
Elongation at Yield	1.8	%	ASTM D 638
Elongation at Break	1.8	%	ASTM D 638
Flexural Modulus	12100	MPa	ASTM D 790
Izod Impact notched, 1/8 in	138	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	647	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	138	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	145	°C	ISO 75-1/-2
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	29	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	39.1	E-6/K	ASTM D 696
DTUL @ 66 psi	143	°C	ASTM D 648
DTUL @ 264 psi	137	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.09	%	Sim. to ISO 62
Water Absorption, 24hr	0.06	%	ASTM D 570
Density	1700	kg/m <sup>3</sup>	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	-

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Back pressure	<b>0.2 - 0.3</b>	MPa	-
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**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific