

Product Texts

LNP LUBRICOMP DFL14 compound is based on Polycarbonate (PC) resin containing 20% glass fiber and 5% PTFE. Added features of this grade include: Wear Resistant.

UL Yellow Card Link [E121562-101284664](https://www.ul.com/yellow-card/E121562-101284664)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.3	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	6020	MPa	ISO 527
Yield stress	96	MPa	ISO 527
Yield strain	2.9	%	ISO 527
Stress at break	94	MPa	ISO 527
Strain at break	3.5	%	ISO 527
Flexural modulus	5590	MPa	ISO 178
Flexural strength	158	MPa	ISO 178
Izod impact strength, +23°C, 4mm	54	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	15	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	6320	MPa	ASTM D 638
Tensile Strength at Yield	96	MPa	ASTM D 638
Tensile Strength at Break	94	MPa	ASTM D 638
Elongation at Yield	3	%	ASTM D 638
Elongation at Break	3.8	%	ASTM D 638
Flexural Modulus	5820	MPa	ASTM D 790
Izod Impact notched, 1/8 in	150	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	710	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	141	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	145	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	25	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	41	E-6/K	ASTM D 696
DTUL @ 66 psi	146	°C	ASTM D 648
DTUL @ 264 psi	142	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.19	%	Sim. to ISO 62
Water Absorption, 24hr	0.12	%	ASTM D 570
Density	1380	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	-

LNP™ LUBRICOMP™ Compound DFL14

(PC+PTFE)-GF20

Saudi Basic Industries Corporation (SABIC)

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, Europe, Asia Pacific