

Product Texts

LNP LUBRICOMP DFL34 compound is based on Polycarbonate (PC) resin containing 20% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant.

UL Yellow Card Link [E45329-101344452](https://www.ulprospector.com/usa/Products/Plastics/PC-PTFE-Compounds/101344452)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	5	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	2.16	kg	-
ASTM Data			
Melt Flow Index, MFI	8.8	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6600	MPa	ISO 527
Stress at break	97	MPa	ISO 527
Strain at break	2.8	%	ISO 527
Flexural modulus	6000	MPa	ISO 178
Flexural strength	150	MPa	ISO 178
Charpy impact strength, +23°C	61	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	21	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	49	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	15	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	6600	MPa	ASTM D 638
Tensile Strength at Break	95	MPa	ASTM D 638
Elongation at Break	3.3	%	ASTM D 638
Flexural Modulus	5600	MPa	ASTM D 790
Izod Impact notched, 1/8 in	150	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	700	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	142	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	146	°C	ISO 75-1/-2
Vicat softening temperature, B	148	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	150	°C	ISO 306
Coeff. of linear therm. expansion, parallel	25	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	78	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
ASTM Data			
DTUL @ 66 psi	147	°C	ASTM D 648
DTUL @ 264 psi	143	°C	ASTM D 648
Vicat Temperature	148	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1450	kg/m ³	ISO 1183
Water Absorption, 24hr	0.15	%	ASTM D 570
Density	1450	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-

LNP™ LUBRICOMP™ Compound DFL34

(PC+PTFE)-GF20

Saudi Basic Industries Corporation (SABIC)

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, Europe, Asia Pacific