

**Product Texts**

LNP LUBRICOMP DL003 compound is based on Polycarbonate (PC) resin containing 15% PTFE. Added features of this grade include: Wear Resistant.

UL Yellow Card Link [E45329-101344454](https://www.ulprospector.com/usa/Products/Plastics/PC+PTFE/101344454)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	5.8	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	6.2	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2200	MPa	ISO 527
Yield stress	54	MPa	ISO 527
Yield strain	5.1	%	ISO 527
Strain at break	20	%	ISO 527
Flexural modulus	2100	MPa	ISO 178
Flexural strength	81	MPa	ISO 178
Charpy impact strength, +23°C	180	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	22	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C, 4mm	140	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	20	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2150	MPa	ASTM D 638
Tensile Strength at Yield	51	MPa	ASTM D 638
Elongation at Yield	6.1	%	ASTM D 638
Elongation at Break	37.6	%	ASTM D 638
Flexural Modulus	2190	MPa	ASTM D 790
Izod Impact notched, 1/8 in	280	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	128	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	138	°C	ISO 75-1/-2
Vicat softening temperature, B	144	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	144	°C	ISO 306
Coeff. of linear therm. expansion, parallel	76	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	98	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
<b>ASTM Data</b>			
DTUL @ 264 psi	127	°C	ASTM D 648
Vicat Temperature	144	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Humidity absorption	0.125	%	Sim. to ISO 62
Density	1280	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.09	%	ASTM D 570
Density	1280	kg/m <sup>3</sup>	ASTM D 792

**LNP™ LUBRICOMP™ Compound DL003**

(PC+PTFE)

Saudi Basic Industries Corporation (SABIC)

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>120</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>300 - 315</b>	°C	-
Mold temperature	<b>80 - 110</b>	°C	-
Zone 1	<b>295 - 305</b>	°C	-
Zone 2	<b>305 - 315</b>	°C	-
Zone 3	<b>310 - 320</b>	°C	-
Screw speed	<b>30 - 60</b>	rpm	-
Back pressure	<b>0.2 - 0.3</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific