

**Product Texts**

LNP LUBRICOMP DX98306H compound is based on Polycarbonate (PC) resin containing proprietary fillers. Added features of this grade include: Wear Resistant, Low Extractable.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	6	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	8.5	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.6	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.7	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2140	MPa	ISO 527
Yield stress	51	MPa	ISO 527
Yield strain	5.3	%	ISO 527
Stress at break	43	MPa	ISO 527
Strain at break	38.2	%	ISO 527
Flexural modulus	2100	MPa	ISO 178
Flexural strength	71	MPa	ISO 178
Charpy notched impact strength, +23°C	5	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C, 4mm	180	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	13	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2060	MPa	ASTM D 638
Tensile Strength at Yield	51	MPa	ASTM D 638
Tensile Strength at Break	42	MPa	ASTM D 638
Elongation at Yield	5.3	%	ASTM D 638
Elongation at Break	32.8	%	ASTM D 638
Flexural Modulus	2060	MPa	ASTM D 790
Izod Impact notched, 1/8 in	154	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	69	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	1770	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	123	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	133	°C	ISO 75-1/-2
Vicat softening temperature, B	141	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	145	°C	ISO 306
<b>ASTM Data</b>			
DTUL @ 66 psi	132	°C	ASTM D 648
DTUL @ 264 psi	122	°C	ASTM D 648
Vicat Temperature	141	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	0.2	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1290	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.1	%	ASTM D 570

Density	<b>1290</b>	kg/m <sup>3</sup>	ASTM D 792
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<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**

Asia Pacific