

**Product Texts**

LNP LUBRILOY DF206XXH compound is based on Polycarbonate (PC) resin containing 30% glass fiber and a proprietary lubricant. Added features of this grade include: Wear Resistant, Healthcare.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.6	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	8240	MPa	ISO 527
Stress at break	112	MPa	ISO 527
Strain at break	2.6	%	ISO 527
Flexural modulus	7580	MPa	ISO 178
Flexural strength	166	MPa	ISO 178
Izod impact strength, +23°C, 4mm	49	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	17	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	8720	MPa	ASTM D 638
Tensile Strength at Break	112	MPa	ASTM D 638
Elongation at Break	2.6	%	ASTM D 638
Flexural Modulus	7830	MPa	ASTM D 790
Izod Impact notched, 1/8 in	178	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	775	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
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
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	50.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	56	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	0.16	%	Sim. to ISO 62
Water Absorption, 24hr	0.11	%	ASTM D 570
Density	1400	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	290 - 315	°C	-
Mold temperature	65 - 95	°C	-
Zone 1	275 - 300	°C	-
Zone 2	280 - 300	°C	-
Zone 3	280 - 310	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific