

Product Texts

LNP LUBRICOMP DX07404H compound is based on Polycarbonate (PC) resin containing proprietary fillers. Added features of this grade include: Healthcare, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.6	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	2270	MPa	ISO 527
Yield stress	59	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	49	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2380	MPa	ISO 178
Izod impact strength, +23°C, 4mm	179	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	11	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2490	MPa	ASTM D 638
Tensile Strength at Yield	60	MPa	ASTM D 638
Tensile Strength at Break	50	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	54	%	ASTM D 638
Flexural Modulus	2380	MPa	ASTM D 790
Izod Impact notched, 1/8 in	133	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	125	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	135	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	64.1	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	65	E-6/K	ASTM D 696
DTUL @ 66 psi	135	°C	ASTM D 648
DTUL @ 264 psi	124	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.18	%	Sim. to ISO 62
Water Absorption, 24hr	0.14	%	ASTM D 570
Density	1250	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	280 - 300	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 290	°C	-
Zone 3	280 - 300	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific