

Product Texts

LNP LUBRICOMP DX94375H 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
ISO Data			
Molding shrinkage, parallel	1.0	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	1	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.1	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2100	MPa	ISO 527
Yield stress	49	MPa	ISO 527
Yield strain	5.1	%	ISO 527
Stress at break	43	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2300	MPa	ISO 178
Flexural strength	81	MPa	ISO 178
Izod impact strength, +23°C, 4mm	137	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	19	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	1860	MPa	ASTM D 638
Tensile Strength at Yield	52	MPa	ASTM D 638
Tensile Strength at Break	44	MPa	ASTM D 638
Elongation at Yield	5.7	%	ASTM D 638
Elongation at Break	56	%	ASTM D 638
Flexural Modulus	2040	MPa	ASTM D 790
Flexural Strength	68	MPa	ASTM D 790
Izod Impact notched, 1/8 in	149	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 264 psi	128	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1270	kg/m ³	ISO 1183
Density	1270	kg/m ³	ASTM D 792

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

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific