

Product Texts

LNP LUBRILOY D2000AXH compound is based on Polycarbonate (PC) resin containing proprietary lubricant. Added features of this grade include: Wear Resistant, Healthcare.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.8	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.9	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1980	MPa	ISO 527
Yield stress	54	MPa	ISO 527
Yield strain	6.2	%	ISO 527
Stress at break	53	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2130	MPa	ISO 178
Flexural strength	78	MPa	ISO 178
Izod impact strength, +23°C, 4mm	137	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	56	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	1860	MPa	ASTM D 638
Tensile Strength at Yield	53	MPa	ASTM D 638
Tensile Strength at Break	60	MPa	ASTM D 638
Elongation at Yield	6.5	%	ASTM D 638
Elongation at Break	125	%	ASTM D 638
Flexural Modulus	2130	MPa	ASTM D 790
Flexural Strength	82	MPa	ASTM D 790
Izod Impact notched, 1/8 in	715	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	126	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	140	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	140	°C	ASTM D 648
DTUL @ 264 psi	126	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.19	%	Sim. to ISO 62
Density	1170	kg/m ³	ISO 1183
Water Absorption, 24hr	0.13	%	ASTM D 570
Density	1170	kg/m ³	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