

Product Texts

LNP LUBRILOY D20001 compound is based on Polycarbonate (PC) resin containing proprietary lubricant. Added features of this grade include: Non-Brominated, Non-Chlorinated Flame Retardant, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
ASTM Data			
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
ISO Data			
Tensile Modulus	2600	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	4.3	%	ISO 527
Stress at break	54	MPa	ISO 527
Strain at break	6.7	%	ISO 527
Flexural modulus	2800	MPa	ISO 178
Flexural strength	102	MPa	ISO 178
Izod impact strength, +23°C, 4mm	104	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2550	MPa	ASTM D 638
Tensile Strength at Yield	67	MPa	ASTM D 638
Tensile Strength at Break	60	MPa	ASTM D 638
Elongation at Yield	4.5	%	ASTM D 638
Elongation at Break	6.5	%	ASTM D 638
Flexural Modulus	2820	MPa	ASTM D 790
Flexural Strength	103	MPa	ASTM D 790
Izod Impact notched, 1/8 in	141	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1610	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	94	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	97	°C	ASTM D 648
DTUL @ 264 psi	89	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.12	%	Sim. to ISO 62
Density	1200	kg/m ³	ISO 1183
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	255 - 290	°C	-
Mold temperature	40 - 65	°C	-
Zone 1	250 - 260	°C	-
Zone 2	255 - 265	°C	-
Zone 3	260 - 270	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

Europe