

Product Texts

LNP LUBRICOMP DL003EXJ compound is based on Polycarbonate (PC) resin containing 15% PTFE. Added features of this grade include: Easy Molding, Low Extractable, Wear Resistant, Healthcare.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.7	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1980	MPa	ISO 527
Yield stress	45	MPa	ISO 527
Yield strain	5.4	%	ISO 527
Stress at break	34	MPa	ISO 527
Strain at break	21.8	%	ISO 527
Flexural modulus	2000	MPa	ISO 178
Flexural strength	67	MPa	ISO 178
Izod impact strength, +23°C, 4mm	110	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	12	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2090	MPa	ASTM D 638
Tensile Strength at Yield	46	MPa	ASTM D 638
Tensile Strength at Break	38	MPa	ASTM D 638
Elongation at Yield	5.6	%	ASTM D 638
Elongation at Break	17.3	%	ASTM D 638
Flexural Modulus	2190	MPa	ASTM D 790
Izod Impact notched, 1/8 in	176	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1780	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	124	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	141	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	77	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	77	E-6/K	ASTM D 696
DTUL @ 66 psi	141	°C	ASTM D 648
DTUL @ 264 psi	130	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.15	%	Sim. to ISO 62
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1290	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