

Product Texts

LNP LUBRICOMP DP003EH compound is based on Polycarbonate (PC) resin containing 15% PTFE/silicone. Added features of this grade include: Easy Molding, Wear Resistant, Healthcare.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.75	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.85	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2010	MPa	ISO 527
Yield stress	48	MPa	ISO 527
Yield strain	5.7	%	ISO 527
Stress at break	46	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	1920	MPa	ISO 178
Flexural strength	61	MPa	ISO 178
Izod impact strength, +23°C, 4mm	174	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	41	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2030	MPa	ASTM D 638
Tensile Strength at Yield	49	MPa	ASTM D 638
Tensile Strength at Break	43	MPa	ASTM D 638
Elongation at Yield	5.9	%	ASTM D 638
Elongation at Break	49	%	ASTM D 638
Flexural Modulus	2100	MPa	ASTM D 790
Flexural Strength	77	MPa	ASTM D 790
Izod Impact notched, 1/8 in	474	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1510	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	127	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	140	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	77.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	76	E-6/K	ASTM D 696
DTUL @ 66 psi	141	°C	ASTM D 648
DTUL @ 264 psi	128	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.19	%	Sim. to ISO 62
Water Absorption, 24hr	0.13	%	ASTM D 570
Density	1260	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