

Product Texts

LNP LUBRICOMP FL003 compound is based on Polyethylene (PE) resin containing 15% PTFE. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	2	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1310	MPa	ISO 527
Yield stress	24	MPa	ISO 527
Yield strain	8.4	%	ISO 527
Stress at break	12	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	920	MPa	ISO 178
Flexural strength	20	MPa	ISO 178
Izod impact strength, +23°C, 4mm	94	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	3	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	1480	MPa	ASTM D 638
Tensile Strength at Yield	24	MPa	ASTM D 638
Tensile Strength at Break	14	MPa	ASTM D 638
Elongation at Yield	8.5	%	ASTM D 638
Elongation at Break	59	%	ASTM D 638
Flexural Modulus	850	MPa	ASTM D 790
Izod Impact notched, 1/8 in	39	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1460	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	46	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	82	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	134	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	145	E-6/K	ASTM D 696
DTUL @ 66 psi	72	°C	ASTM D 648
DTUL @ 264 psi	46	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.04	%	Sim. to ISO 62
Water Absorption, 24hr	0.04	%	ASTM D 570
Density	1030	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	230	°C	-
Mold temperature	40 - 55	°C	-
Zone 1	195 - 205	°C	-
Zone 2	210 - 220	°C	-
Zone 3	220 - 230	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific