

Product Texts

LNP LUBRICOMP FL004 compound is based on Polyethylene (PE) resin containing 20% PTFE. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	4	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1000	MPa	ISO 527
Yield stress	23	MPa	ISO 527
Yield strain	7.9	%	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	930	MPa	ISO 178
Flexural strength	19	MPa	ISO 178
Izod impact strength, +23°C, 4mm	100	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	3	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	1240	MPa	ASTM D 638
Tensile Strength at Yield	23	MPa	ASTM D 638
Tensile Strength at Break	12	MPa	ASTM D 638
Elongation at Yield	8.2	%	ASTM D 638
Elongation at Break	148	%	ASTM D 638
Flexural Modulus	930	MPa	ASTM D 790
Izod Impact notched, 1/8 in	37	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1030	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	59	°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	121	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	137	E-6/K	ASTM D 696
DTUL @ 66 psi	74	°C	ASTM D 648
DTUL @ 264 psi	53	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1080	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