

Product Texts

LNP LUBRICOMP FP003 compound is based on Polyethylene (PE) resin, containing 15% PTFE/silicone. Added features of this grade include: Internally Lubricated, Wear Resistant.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	900	MPa	ISO 527
Yield stress	20	MPa	ISO 527
Yield strain	9	%	ISO 527
Stress at break	12	MPa	ISO 527
Strain at break	12	%	ISO 527
Flexural modulus	700	MPa	ISO 178
Izod impact strength, +23°C, 4mm	80	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	47	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	63	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	124	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	144	E-6/K	ISO 11359-1/-2

Other properties	Value	Unit	Test Standard
Density	1020	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	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