

Product Texts

LNP LUBRICOMP ML004 compound is based on Polypropylene (PP) resin containing 20% 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	1620	MPa	ISO 527
Yield stress	31	MPa	ISO 527
Stress at break	28	MPa	ISO 527
Flexural modulus	1590	MPa	ISO 178
Flexural strength	40	MPa	ISO 178
Izod impact strength, +23°C, 4mm	26	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	2	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	1950	MPa	ASTM D 638
Tensile Strength at Yield	33	MPa	ASTM D 638
Tensile Strength at Break	29	MPa	ASTM D 638
Elongation at Yield	5.5	%	ASTM D 638
Elongation at Break	10.4	%	ASTM D 638
Flexural Modulus	1590	MPa	ASTM D 790
Izod Impact notched, 1/8 in	27	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	416	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	56	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	102	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	130	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	130	E-6/K	ASTM D 696
DTUL @ 66 psi	115	°C	ASTM D 648
DTUL @ 264 psi	57	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.01	%	Sim. to ISO 62
Density	1020	kg/m ³	ISO 1183
Water Absorption, 24hr	0.02	%	ASTM D 570
Density	1010	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	225 - 250	°C	-
Mold temperature	30 - 50	°C	-
Zone 1	195 - 205	°C	-
Zone 2	215 - 225	°C	-
Zone 3	240 - 250	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific