

Product Texts

LNP LUBRICOMP LL003 compound is based on Polyetheretherketone (PEEK) resin containing 15% PTFE. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	1.45	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3070	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	3.3	%	ISO 527
Stress at break	62	MPa	ISO 527
Strain at break	3.3	%	ISO 527
Flexural modulus	2750	MPa	ISO 178
Flexural strength	92	MPa	ISO 178
Izod impact strength, +23°C, 4mm	37	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	3000	MPa	ASTM D 638
Tensile Strength at Yield	64	MPa	ASTM D 638
Tensile Strength at Break	64	MPa	ASTM D 638
Elongation at Yield	4.5	%	ASTM D 638
Elongation at Break	4.5	%	ASTM D 638
Flexural Modulus	2940	MPa	ASTM D 790
Izod Impact notched, 1/8 in	48	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	723	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	147	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	156	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	47	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	57.1	E-6/K	ASTM D 696
DTUL @ 66 psi	156	°C	ASTM D 648
DTUL @ 264 psi	146	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.08	%	Sim. to ISO 62
Water Absorption, 24hr	0.07	%	ASTM D 570
Density	1390	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4 - 6	h	-
Mold temperature	175 - 190	°C	-
Zone 1	370 - 380	°C	-
Zone 2	380 - 400	°C	-
Zone 3	380 - 400	°C	-
Screw speed	60 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific