

Product Texts

LNP LUBRICOMP LL004C compound is based on Polyetheretherketone (PEEK) resin containing 20% PTFE. Added features of this grade include: Wear Resistant, LNP Clean Compounding Technology.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.3	%	ISO 294-4, 2577
Molding shrinkage, normal	1.9	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	1.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.9	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3060	MPa	ISO 527
Yield stress	73	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	69	MPa	ISO 527
Strain at break	11.8	%	ISO 527
Flexural modulus	3320	MPa	ISO 178
Flexural strength	118	MPa	ISO 178
Izod impact strength, +23°C, 4mm	91	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	8	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2890	MPa	ASTM D 638
Tensile Strength at Yield	74	MPa	ASTM D 638
Tensile Strength at Break	69	MPa	ASTM D 638
Elongation at Yield	5.8	%	ASTM D 638
Elongation at Break	23.3	%	ASTM D 638
Flexural Modulus	2960	MPa	ASTM D 790
Flexural Strength	117	MPa	ASTM D 790
Izod Impact notched, 1/8 in	96	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1550	J/m	ASTM D 256

Other properties	Value	Unit	Test Standard
Density	1370	kg/m ³	ISO 1183
Water Absorption, 24hr	0.06	%	ASTM D 570
Density	1370	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