

Product Texts

LNP LUBRICOMP GL004 compound is based on Polysulfone (PSU) resin containing 20% PTFE. Added features of this grade include: Internally Lubricated, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.8	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1860	MPa	ISO 527
Yield stress	48	MPa	ISO 527
Yield strain	4.8	%	ISO 527
Stress at break	47	MPa	ISO 527
Strain at break	6.3	%	ISO 527
Flexural modulus	2000	MPa	ISO 178
Flexural strength	71	MPa	ISO 178
Izod impact strength, +23°C, 4mm	38	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2060	MPa	ASTM D 638
Tensile Strength at Yield	50	MPa	ASTM D 638
Tensile Strength at Break	49	MPa	ASTM D 638
Elongation at Yield	4.7	%	ASTM D 638
Elongation at Break	5.8	%	ASTM D 638
Flexural Modulus	2060	MPa	ASTM D 790
Izod Impact notched, 1/8 in	85	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	576	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	167	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	177	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	177	°C	ASTM D 648
DTUL @ 264 psi	162	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1360	kg/m ³	ISO 1183
Water Absorption, 24hr	0.2	%	ASTM D 570
Density	1360	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	360 - 370	°C	-
Mold temperature	150	°C	-
Zone 1	325 - 340	°C	-
Zone 2	340 - 350	°C	-
Zone 3	350 - 360	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific