

Product Texts

LNP LUBRICOMP WI001 compound is based on Polybutylene Terephthalate (PBT) resin containing 2% silicone. Added features of this grade include: Wear Resistant.

UL Yellow Card Link [E121562-101284325](https://www.ul.com/yellow-card/E121562-101284325)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	3	mm/mm	ASTM D 955
Mold Shrinkage, TD	3	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2540	MPa	ISO 527
Yield stress	53	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	45	MPa	ISO 527
Strain at break	32	%	ISO 527
Flexural modulus	2520	MPa	ISO 178
Flexural strength	81	MPa	ISO 178
Izod impact strength, +23°C, 4mm	62	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	47	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2720	MPa	ASTM D 638
Tensile Strength at Yield	50	MPa	ASTM D 638
Tensile Strength at Break	46	MPa	ASTM D 638
Elongation at Yield	2.8	%	ASTM D 638
Elongation at Break	51	%	ASTM D 638
Flexural Modulus	2620	MPa	ASTM D 790
Izod Impact notched, 1/8 in	5	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	935	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	156	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	85	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	88	E-6/K	ASTM D 696
DTUL @ 66 psi	202	°C	ASTM D 648
DTUL @ 264 psi	61	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.09	%	Sim. to ISO 62
Water Absorption, 24hr	0.06	%	ASTM D 570
Density	1300	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	240 - 265	°C	-
Mold temperature	80 - 100	°C	-
Zone 1	220 - 230	°C	-
Zone 2	245 - 255	°C	-
Zone 3	260 - 270	°C	-
Screw speed	30 - 60	rpm	-

Back pressure

0.2 - 0.3

MPa

-

Characteristics

Processing

Injection Molding

Regional Availability

North America