

**Product Texts**

LNP LUBRICOMP WL0049 compound is based on Polybutylene Terephthalate (PBT) resin containing 20% PTFE. Added features of this grade include: Wear

Resistant and Flame Retardant.

UL Yellow Card [E121562-101282606](https://www.ul.com/yellow-card/E121562-101282606)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.02	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.02	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	42	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	42	MPa	ISO 527
Strain at break	3	%	ISO 527
Flexural modulus, 23°C	2300	MPa	ISO 178
Flexural strength	71	MPa	ISO 178
Izod impact strength, +23°C	30	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	2	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Flexural Modulus	2500	MPa	ASTM D 790
Flexural Strength	74	MPa	ASTM D 790
Izod Impact notched, 1/8 in	35	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	293	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	63	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	134	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	109	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	101	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.2	mm	-
Yellow Card available	yes	-	-
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	105	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	95	E-6/K	ASTM D 696
DTUL @ 66 psi	134	°C	ASTM D 648
DTUL @ 264 psi	91	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.06	%	Sim. to ISO 62
Density	1510	kg/m <sup>3</sup>	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	245 - 260	°C	-
Mold temperature	80 - 100	°C	-

Zone 1	<b>230 - 245</b>	°C	-
Zone 2	<b>245 - 255</b>	°C	-
Zone 3	<b>250 - 260</b>	°C	-
Screw speed	<b>30 - 60</b>	rpm	-
Back pressure	<b>0.2 - 0.3</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Additives**

Lubricants

**Special Characteristics**

Flame retardant

**Applications**Building Construction, IT / Business Machine, Electrical and  
Electronical, Sports Equipment**Regional Availability**

North America, Europe, Asia Pacific