

**Product Texts**

LNP LUBRICOMP ZFL31XXC compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing 5% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant

UL Yellow Card Link [E121562-101282559](https://www.ulprospector.com/usa/Products/121562-101282559)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.6	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.7	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	3640	MPa	ISO 527
Yield strain	2.7	%	ISO 527
Stress at break	60	MPa	ISO 527
Strain at break	3.2	%	ISO 527
Flexural modulus	4800	MPa	ISO 178
Flexural strength	89	MPa	ISO 178
Izod impact strength, +23°C, 4mm	24	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	3650	MPa	ASTM D 638
Tensile Strength at Break	60	MPa	ASTM D 638
Elongation at Yield	2.8	%	ASTM D 638
Elongation at Break	3.5	%	ASTM D 638
Flexural Modulus	3650	MPa	ASTM D 790
Izod Impact notched, 1/8 in	80	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	360	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	127	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	134	°C	ISO 75-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	66.1	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	68.9	E-6/K	ASTM D 696
DTUL @ 66 psi	136	°C	ASTM D 648
DTUL @ 264 psi	127	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.1	%	Sim. to ISO 62
Water Absorption, 24hr	0.07	%	ASTM D 570
Density	1210	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	-
Melt temperature	300 - 305	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	275 - 290	°C	-
Zone 2	290 - 300	°C	-
Zone 3	300 - 310	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**LNP™ LUBRICOMP™ Compound ZFL31XXC - Americas**

(PPE+PS+PTFE)-GF5

Saudi Basic Industries Corporation (SABIC)

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America