

Product Texts

LNP LUBRICOMP ZL003 compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing 15% PTFE. Added features of this grade include: Wear Resistant.

UL Yellow Card Link [E207780-103093735](https://www.ulprospector.com/usa/Products/Plastics/Engineering-Plastics/207780-103093735)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.8	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.9	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2250	MPa	ISO 527
Yield stress	48	MPa	ISO 527
Yield strain	8.1	%	ISO 527
Stress at break	48	MPa	ISO 527
Strain at break	8.3	%	ISO 527
Flexural modulus	2000	MPa	ISO 178
Izod impact strength, +23°C, 4mm	17	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2060	MPa	ASTM D 638
Tensile Strength at Yield	47	MPa	ASTM D 638
Tensile Strength at Break	46	MPa	ASTM D 638
Elongation at Yield	8.5	%	ASTM D 638
Elongation at Break	8.9	%	ASTM D 638
Flexural Modulus	2750	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	267	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	119	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	130	°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			
DTUL @ 66 psi	128	°C	ASTM D 648
DTUL @ 264 psi	117	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1150	kg/m ³	ISO 1183
Density	1150	kg/m ³	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	-

Characteristics

Processing

Injection Molding

Regional Availability

Asia Pacific