

Product Texts

LNP LUBRICOMP ZP001XXP compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing 5% PTFE/silicone. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.7	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	2200	MPa	ISO 527
Yield stress	45	MPa	ISO 527
Yield strain	3.2	%	ISO 527
Stress at break	48	MPa	ISO 527
Strain at break	31	%	ISO 527
Flexural modulus	2290	MPa	ISO 178
Flexural strength	73	MPa	ISO 178
Izod impact strength, +23°C, 4mm	59	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	13	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2390	MPa	ASTM D 638
Tensile Strength at Yield	49	MPa	ASTM D 638
Tensile Strength at Break	49	MPa	ASTM D 638
Elongation at Yield	3.3	%	ASTM D 638
Elongation at Break	30	%	ASTM D 638
Flexural Modulus	2430	MPa	ASTM D 790
Izod Impact notched, 1/8 in	141	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1040	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	116	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	129	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	77.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	77.9	E-6/K	ASTM D 696
DTUL @ 66 psi	130	°C	ASTM D 648
DTUL @ 264 psi	118	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.15	%	Sim. to ISO 62
Water Absorption, 24hr	0.11	%	ASTM D 570
Density	1070	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

LNP™ LUBRICOMP™ Compound ZP001XXP - Americas

(PPE+PS+PTFE)

Saudi Basic Industries Corporation (SABIC)

Processing

Injection Molding

Regional Availability

North America