

LNP™ LUBRILOY™ Compound Z2000

(PPE+PS)

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP LUBRILOY Z2000 compound is based on Polyphenylene Ether / Polystyrene (PPE/PS) blend containing proprietary lubricant. Added features of this grade include: Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.9	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.89	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.15	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1810	MPa	ISO 527
Yield stress	38	MPa	ISO 527
Yield strain	3.2	%	ISO 527
Stress at break	41	MPa	ISO 527
Strain at break	37.3	%	ISO 527
Flexural modulus	1860	MPa	ISO 178
Flexural strength	58	MPa	ISO 178
Izod impact strength, +23°C, 4mm	172	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	11	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	1820	MPa	ASTM D 638
Tensile Strength at Yield	46	MPa	ASTM D 638
Tensile Strength at Break	42	MPa	ASTM D 638
Elongation at Yield	4.2	%	ASTM D 638
Elongation at Break	52.3	%	ASTM D 638
Flexural Modulus	2080	MPa	ASTM D 790
Flexural Strength	74	MPa	ASTM D 790
Izod Impact notched, 1/8 in	106	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	2030	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	120	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	138	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	140	°C	ASTM D 648
DTUL @ 264 psi	121	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.07	%	Sim. to ISO 62
Density	1040	kg/m ³	ISO 1183
Water Absorption, 24hr	0.06	%	ASTM D 570
Density	1040	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	275 - 295	°C	-
Mold temperature	60 - 95	°C	-
Zone 1	255 - 265	°C	-
Zone 2	260 - 270	°C	-
Zone 3	265 - 275	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific