

**LNP™ LUBRICOMP™ Compound EL003**

(PEI+PTFE)

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

LNP LUBRICOMP EL003 compound is based on Polyetherimide (PEI) resin containing 15% PTFE. Added features of this grade include: Wear Resistant.

UL Yellow Card Link [E45329-101283805](https://www.ul.com/yellow-card-link/E45329-101283805)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.9	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.95	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.95	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2740	MPa	ISO 527
Yield stress	83	MPa	ISO 527
Yield strain	6.3	%	ISO 527
Stress at break	82	MPa	ISO 527
Strain at break	8.1	%	ISO 527
Flexural modulus	3020	MPa	ISO 178
Flexural strength	130	MPa	ISO 178
Izod impact strength, +23°C, 4mm	61	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	8	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	2750	MPa	ASTM D 638
Tensile Strength at Yield	88	MPa	ASTM D 638
Tensile Strength at Break	85	MPa	ASTM D 638
Elongation at Yield	6.5	%	ASTM D 638
Elongation at Break	10.3	%	ASTM D 638
Flexural Modulus	2890	MPa	ASTM D 790
Flexural Strength	135	MPa	ASTM D 790
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	747	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	182	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.7	mm	-
<b>ASTM Data</b>			
DTUL @ 264 psi	182	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.25	%	Sim. to ISO 62
Density	1350	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.21	%	ASTM D 570
Density	1350	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	360 - 375	°C	-
Mold temperature	140 - 180	°C	-
Zone 1	355 - 365	°C	-
Zone 2	360 - 370	°C	-
Zone 3	365 - 375	°C	-

---

Back pressure	<b>0.3 - 0.7</b>	MPa	-
---------------	------------------	-----	---

---

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific