

**Product Texts**

LNP LUBRICOMP EFL36E compound is based on Polyetherimide (PEI) resin containing 30% glass fiber, 15% PTFE. Added features of this grade include: Easy Molding, Wear Resistant.

UL Yellow Card Link [E45329-101343830](https://www.ulprospector.com/usa/Products/PEI/PEI+PTFE-GF30)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	5.3	cm <sup>3</sup> /10min	ISO 1133
Temperature	350	°C	-
Load	2.16	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	8.2	g/10min	ASTM D 1238
Temperature	350	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	11200	MPa	ISO 527
Stress at break	150	MPa	ISO 527
Strain at break	2.4	%	ISO 527
Flexural modulus	8900	MPa	ISO 178
Flexural strength	210	MPa	ISO 178
Charpy impact strength, +23°C	44	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	14	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C, 4mm	33	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	11400	MPa	ASTM D 638
Tensile Strength at Break	140	MPa	ASTM D 638
Elongation at Break	2.3	%	ASTM D 638
Flexural Modulus	8650	MPa	ASTM D 790
Izod Impact notched, 1/8 in	80	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	540	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	208	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	213	°C	ISO 75-1/-2
Vicat softening temperature, B	215	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	210	°C	ISO 306
Coeff. of linear therm. expansion, parallel	16	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	41	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
<b>ASTM Data</b>			
DTUL @ 264 psi	208	°C	ASTM D 648
Vicat Temperature	215	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Humidity absorption	0.06	%	Sim. to ISO 62
Density	1600	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.15	%	ASTM D 570
Density	1600	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	%	-

**LNP™ LUBRICOMP™ Compound EFL36E**

(PEI+PTFE)-GF30

Saudi Basic Industries Corporation (SABIC)

Melt temperature	<b>360 - 375</b>	°C	-
Mold temperature	<b>140 - 180</b>	°C	-
Zone 1	<b>355 - 365</b>	°C	-
Zone 2	<b>360 - 370</b>	°C	-
Zone 3	<b>365 - 375</b>	°C	-
Back pressure	<b>0.3 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific