LNP™ LUBRICOMP™ Compound EFL36 - Americas

(PEI+PTFE)-GF30 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP LUBRICOMP EFL36 compound is based on Polyetherimide (PEI) resin containing 30% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant.

UL Yellow Card Link E121562-101283889

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.2**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.4**	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	**0.2**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.5**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**11200**	MPa	ISO 527
Stress at break	**168**	MPa	ISO 527
Strain at break	**2**	%	ISO 527
Flexural modulus	**11400**	MPa	ISO 178
Flexural strength	**248**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**46**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**13**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**12680**	MPa	ASTM D 638
Tensile Strength at Break	**175**	MPa	ASTM D 638
Elongation at Break	**2**	%	ASTM D 638
Flexural Modulus	**11300**	MPa	ASTM D 790
Flexural Strength	**252**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**122**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**710**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**204**	°C	ISO 75-1/-2
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-
ASTM Data			
DTUL @ 264 psi	**202**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.22**	%	Sim. to ISO 62
Density	**1620**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.15**	%	ASTM D 570
Density	**1620**	kg/m³	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	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Regional Availability
North America