

Product Texts

LNP LUBRICOMP EFL34HL compound is based on Polyetherimide (PEI) resin containing 20% glass fiber, 15% PTFE. Added features of this grade include: Wear Resistant, Low Extractable.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.6	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	7400	MPa	ISO 527
Stress at break	113	MPa	ISO 527
Strain at break	2.2	%	ISO 527
Flexural modulus	7940	MPa	ISO 178
Flexural strength	181	MPa	ISO 178
Izod impact strength, +23°C, 4mm	32	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	20	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	7580	MPa	ASTM D 638
Tensile Strength at Break	113	MPa	ASTM D 638
Elongation at Break	2.2	%	ASTM D 638
Flexural Modulus	7510	MPa	ASTM D 790
Flexural Strength	179	MPa	ASTM D 790
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	480	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
ASTM Data			
DTUL @ 264 psi	203	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.23	%	Sim. to ISO 62
Density	1540	kg/m ³	ISO 1183
Water Absorption, 24hr	0.17	%	ASTM D 570
Density	1540	kg/m ³	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, Europe, Asia Pacific