

Product Texts

LNP THERMOTUF WF006NiQ compound is based on Polybutylene Terephthalate (PBT) resin utilizing ELCRIN iQ upcycling technology and containing 30% glass fiber. Added features of this grade include: Impact Modified, High Flow, Good Metal Bonding Strength and Good Chemical Resistance suitable for Nano-Molding Technology (NMT) applications, >25% Post Consumer Recycled content.

UL Yellow Card Link [E207780-104030009](https://www.ul.com/yellow-card/E207780-104030009)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	29	cm ³ /10min	ISO 1133
Temperature	275	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	37	g/10min	ASTM D 1238
Temperature	275	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	8600	MPa	ISO 527
Stress at break	111	MPa	ISO 527
Strain at break	2.5	%	ISO 527
Flexural modulus	7100	MPa	ISO 178
Izod impact strength, +23°C, 4mm	54	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	13	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	8760	MPa	ASTM D 638
Tensile Strength at Break	110	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	7700	MPa	ASTM D 790
Izod Impact notched, 1/8 in	137	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	100	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	870	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	156	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	200	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	23	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	96	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
ASTM Data			
DTUL @ 66 psi	204	°C	ASTM D 648
DTUL @ 264 psi	162	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1490	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 120	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	250 - 270	°C	-
Mold temperature	100 - 160	°C	-
Feed temperature	40 - 60	°C	-
Zone 1	240 - 260	°C	-

LNP™ THERMOTUF™ Compound WF006NiQ

PBT-GF30

Saudi Basic Industries Corporation (SABIC)

Zone 2	250 - 270	°C	-
Zone 3	250 - 270	°C	-

Characteristics**Processing**

Injection Molding

Certifications

Recycled Resin Content

Special Characteristics

High impact or impact modified

Regional Availability

North America, Europe, Asia Pacific