

**Product Texts**

LNP THERMOTUF WF006N compound is based on Polybutylene Terephthalate (PBT) resin containing 30% glass fiber. Added features of this grade include: High Metal Bonding Strength, High Impact, Good Dimensional Stability and Good Chemical Resistance. The potential applications include Nano-Molding Technology (NMT).

UL Yellow Card Link [F207780-104047809](https://www.ul.com/yellow-card-link/F207780-104047809)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	8.5	cm <sup>3</sup> /10min	ISO 1133
Temperature	250	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	8200	MPa	ISO 527
Yield stress	120	MPa	ISO 527
Yield strain	2.5	%	ISO 527
Stress at break	120	MPa	ISO 527
Strain at break	2.5	%	ISO 527
Flexural modulus	7400	MPa	ISO 178
Izod impact strength, +23°C, 4mm	52	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	14	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	11	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	7900	MPa	ASTM D 638
Tensile Strength at Yield	110	MPa	ASTM D 638
Tensile Strength at Break	110	MPa	ASTM D 638
Elongation at Yield	2.7	%	ASTM D 638
Elongation at Break	2.7	%	ASTM D 638
Flexural Modulus	6600	MPa	ASTM D 790
Izod Impact notched, 1/8 in	165	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	124	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	840	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	158	°C	ISO 75-1/-2
Vicat softening temperature, B	157	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
<b>ASTM Data</b>			
Vicat Temperature	153	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1480	kg/m <sup>3</sup>	ASTM D 792

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	-

**LNP™ THERMOTUF™ Compound WF006N**

PBT-GF30

Saudi Basic Industries Corporation (SABIC)

Feed temperature	<b>40 - 60</b>	°C	-
Zone 1	<b>240 - 260</b>	°C	-
Zone 2	<b>250 - 270</b>	°C	-
Zone 3	<b>250 - 270</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Chemical Resistance**

General Chemical Resistance