

**Product Texts**

LNP THERMOTUF WF009N compound is based on Polybutylene Terephthalate (PBT) resin containing 45% glass fiber. Added features of this grade include: Impact Modified, Good Metal Bonding Strength and Good Chemical Resistance suitable for Nano-Molding Technology (NMT) applications.

UL Yellow Card Link [F207780-103351811](https://www.ul.com/yellow-card-link/F207780-103351811)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	29	cm <sup>3</sup> /10min	ISO 1133
Temperature	275	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	14100	MPa	ISO 527
Stress at break	163	MPa	ISO 527
Strain at break	2.1	%	ISO 527
Flexural modulus	12300	MPa	ISO 178
Izod impact strength, +23°C, 4mm	64	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	16	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	16	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	14500	MPa	ASTM D 638
Tensile Strength at Break	168	MPa	ASTM D 638
Elongation at Break	2.2	%	ASTM D 638
Flexural Modulus	13200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	153	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	144	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	1050	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	211	°C	ISO 75-1/-2
Vicat softening temperature, A	213	°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	212	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1700	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	4 - 8	h	-
Processing humidity	≤0.02	%	-
Melt temperature	265 - 285	°C	-
Mold temperature	100 - 140	°C	-
Zone 1	250 - 270	°C	-
Zone 2	260 - 280	°C	-
Zone 3	265 - 285	°C	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

High impact or impact modified