

**Product Texts**

LNP THERMOTUF WF008NXQ compound is based on Polybutylene Terephthalate (PBT) resin containing 40% glass fiber. Added features of this grade include: High Modulus, Impact Modified, Good Metal Bonding Strength and Good Chemical Resistance suitable for Nano-Molding Technology (NMT) applications and Good Color Stability during anodizing process.

UL Yellow Card Link [F207780-104061459](https://www.ul.com/yellow-card-link/F207780-104061459)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	12	cm <sup>3</sup> /10min	ISO 1133
Temperature	280	°C	-
Load	2.16	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	43	g/10min	ASTM D 1238
Temperature	275	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	12200	MPa	ISO 527
Stress at break	145	MPa	ISO 527
Strain at break	2.7	%	ISO 527
Flexural modulus	11200	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	12	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	9.5	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	12400	MPa	ASTM D 638
Tensile Strength at Break	152	MPa	ASTM D 638
Elongation at Break	2.7	%	ASTM D 638
Flexural Modulus	11000	MPa	ASTM D 790
Izod Impact notched, 1/8 in	130	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	97	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	890	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	204	°C	ISO 75-1/-2
Vicat softening temperature, B	208	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	221	°C	ASTM D 648
DTUL @ 264 psi	205	°C	ASTM D 648
Vicat Temperature	210	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1600	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 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	260 - 280	°C	-
Mold temperature	100 - 150	°C	-
Feed temperature	40 - 60	°C	-
Zone 1	240 - 260	°C	-
Zone 2	250 - 270	°C	-

Zone 3

**250 - 270**

°C

-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

High impact or impact modified