

Product Texts

LNP THERMOTUF WF008NA 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 [E207780-103732102](https://www.ul.com/yellow-card/E207780-103732102)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	32	cm ³ /10min	ISO 1133
Temperature	275	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	43	g/10min	ASTM D 1238
Temperature	275	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12500	MPa	ISO 527
Stress at break	155	MPa	ISO 527
Strain at break	3.2	%	ISO 527
Flexural modulus	11700	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	12	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	12800	MPa	ASTM D 638
Tensile Strength at Break	156	MPa	ASTM D 638
Elongation at Break	3.2	%	ASTM D 638
Flexural Modulus	11100	MPa	ASTM D 790
Izod Impact notched, 1/8 in	132	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	912	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	208	°C	ISO 75-1/-2
Vicat softening temperature, A	221	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
ASTM Data			
DTUL @ 264 psi	206	°C	ASTM D 648
Vicat Temperature	208	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1610	kg/m ³	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	-
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