

Product Texts

LNP THERMOTUF WF009NAR 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 [F207780-103376952](https://www.ul.com/yellow-card/F207780-103376952)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	27	cm ³ /10min	ISO 1133
Temperature	285	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	15700	MPa	ISO 527
Stress at break	172	MPa	ISO 527
Strain at break	2.2	%	ISO 527
Flexural modulus	13000	MPa	ISO 178
Izod impact strength, +23°C, 4mm	60	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	12	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	14900	MPa	ASTM D 638
Tensile Strength at Break	162	MPa	ASTM D 638
Elongation at Break	2.1	%	ASTM D 638
Flexural Modulus	13700	MPa	ASTM D 790
Izod Impact notched, 1/8 in	123	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	115	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	980	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	207	°C	ISO 75-1/-2
Vicat softening temperature, A	215	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
ASTM Data			
Vicat Temperature	216	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1700	kg/m ³	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	120 - 160	°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