

Product Texts

LNP THERMOTUF WF006I compound is based on Polybutylene Terephthalate (PBT) resin containing 30% glass fiber. Added features of this grade include: Impact Modified.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.3	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6520	MPa	ISO 527
Yield stress	109	MPa	ISO 527
Yield strain	2.1	%	ISO 527
Strain at break	2.8	%	ISO 527
Flexural modulus	8620	MPa	ISO 178
Flexural strength	181	MPa	ISO 178
Izod impact strength, +23°C, 4mm	64	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	20	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	8960	MPa	ASTM D 638
Tensile Strength at Yield	107	MPa	ASTM D 638
Tensile Strength at Break	106	MPa	ASTM D 638
Elongation at Yield	3.2	%	ASTM D 638
Elongation at Break	3.9	%	ASTM D 638
Flexural Modulus	7510	MPa	ASTM D 790
Flexural Strength	173	MPa	ASTM D 790
Izod Impact notched, 1/8 in	186	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	998	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 264 psi	210	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1470	kg/m ³	ISO 1183
Density	1470	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	240 - 265	°C	-
Mold temperature	80 - 100	°C	-
Zone 1	220 - 230	°C	-
Zone 2	245 - 255	°C	-
Zone 3	260 - 270	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America

Special Characteristics

High impact or impact modified