

Product Texts

LNP THERMOTUF WF003I compound is based on Polybutylene Terephthalate (PBT) resin containing 15% glass fiber. Added features of this grade include: Impact Modified.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.7	mm/mm	ASTM D 955
Mold Shrinkage, TD	1	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	5000	MPa	ISO 527
Yield stress	78	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	76	MPa	ISO 527
Strain at break	4	%	ISO 527
Flexural modulus	4710	MPa	ISO 178
Flexural strength	130	MPa	ISO 178
Izod impact strength, +23°C, 4mm	46	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	11	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Strength at Break	79	MPa	ASTM D 638
Flexural Modulus	4580	MPa	ASTM D 790
Flexural Strength	134	MPa	ASTM D 790
Izod Impact notched, 1/8 in	128	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	720	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 264 psi	201	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.08	%	Sim. to ISO 62
Density	1370	kg/m ³	ISO 1183
Water Absorption, 24hr	0.09	%	ASTM D 570
Density	1370	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