

Product Texts

LNP THERMOTUF IX02582 compound is based on Nylon 6/12 resin containing 40% glass fiber. Added features of this grade include: Impact Modified.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	11800	MPa	ISO 527
Stress at break	157	MPa	ISO 527
Strain at break	2.8	%	ISO 527
Flexural modulus	9980	MPa	ISO 178
Flexural strength	233	MPa	ISO 178
Izod impact strength, +23°C, 4mm	62	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	15	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	12120	MPa	ASTM D 638
Tensile Strength at Break	156	MPa	ASTM D 638
Elongation at Break	2.8	%	ASTM D 638
Flexural Modulus	9700	MPa	ASTM D 790
Izod Impact notched, 1/8 in	158	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	995	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	196	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	210	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	39.1	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	75.1	E-6/K	ASTM D 696
DTUL @ 66 psi	214	°C	ASTM D 648
DTUL @ 264 psi	198	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.28	%	Sim. to ISO 62
Water Absorption, 24hr	0.16	%	ASTM D 570
Density	1410	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.2	%	-
Melt temperature	270 - 275	°C	-
Mold temperature	65 - 95	°C	-
Zone 1	255 - 265	°C	-
Zone 2	260 - 270	°C	-
Zone 3	270 - 280	°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