

Product Texts

LNP THERMOTUF PX06417 compound is based on Nylon 6 resin containing 40% glass fiber. Added features of this grade include: Heat Stabilized, Impact Modified.

UL Yellow Card Link [E121562-101281614](https://www.ul.com/yellow-card/E121562-101281614)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.9	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	11400	MPa	ISO 527
Stress at break	147	MPa	ISO 527
Strain at break	2.9	%	ISO 527
Flexural modulus	11000	MPa	ISO 178
Flexural strength	243	MPa	ISO 178
Izod impact strength, +23°C, 4mm	70	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	15	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	12820	MPa	ASTM D 638
Tensile Strength at Break	152	MPa	ASTM D 638
Elongation at Break	2.4	%	ASTM D 638
Flexural Modulus	8960	MPa	ASTM D 790
Flexural Strength	228	MPa	ASTM D 790
Izod Impact notched, 1/8 in	149	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1090	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
Burning behav. at 1.5 mm nom. thic kn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	220	°C	ASTM D 648
DTUL @ 264 psi	208	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	1.02	%	Sim. to ISO 62
Density	1460	kg/m ³	ISO 1183
Water Absorption, 24hr	0.64	%	ASTM D 570
Density	1460	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	≤0.25	%	-
Melt temperature	265 - 275	°C	-
Mold temperature	80 - 95	°C	-
Zone 1	250 - 260	°C	-
Zone 2	265 - 275	°C	-
Zone 3	275 - 290	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

High impact or impact modified