

Product Texts

LNP THERMOTUF RF006I compound is based on Nylon 6/6 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	1.1	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.1	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	10800	MPa	ISO 527
Stress at break	179	MPa	ISO 527
Strain at break	2.9	%	ISO 527
Flexural modulus	9480	MPa	ISO 178
Flexural strength	266	MPa	ISO 178
Izod impact strength, +23°C, 4mm	75	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	14	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	10410	MPa	ASTM D 638
Tensile Strength at Break	161	MPa	ASTM D 638
Elongation at Break	3.2	%	ASTM D 638
Flexural Modulus	8680	MPa	ASTM D 790
Flexural Strength	248	MPa	ASTM D 790
Izod Impact notched, 1/8 in	117	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1120	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	259	°C	ASTM D 648
DTUL @ 264 psi	121	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1370	kg/m ³	ISO 1183
Water Absorption, 24hr	0.63	%	ASTM D 570
Density	1380	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	280 - 305	°C	-
Mold temperature	95 - 110	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

High impact or impact modified