

LNP* Thermotuf* Compound PX07437

Americas: COMMERCIAL

Compound based on Nylon 6 resin containing glass fiber and impact modifier.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	97	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	94	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	3.4	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	4.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	5200	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	150	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	4650	MPa	ASTM D 790
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	1070	J/m	ASTM D 4812
Izod Impact, notched, 23°C	200	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	5	J	ASTM D 3763
Instrumented Impact Total Energy, 23°C	25	J	ASTM D 3763
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	190	°C	ASTM D 648
PHYSICAL	Value	Unit	Standard
Density	1.23	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.3 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.8 - 0.9	%	ASTM D 955

Source GMD, last updated:07/10/2008

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	265 - 275	°C
Front - Zone 3 Temperature	275 - 290	°C
Middle - Zone 2 Temperature	265 - 275	°C
Rear - Zone 1 Temperature	250 - 260	°C
Mold Temperature	80 - 95	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:07/10/2008

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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