

# LNP™ THERMOTUF™ PX06416 compound

Polyamide 6

SABIC Innovative Plastics

Message:

LNP THERMOTUF PX06416 is a compound based on Nylon 6 resin containing 15% Glass Fiber. Added features of this material include: High Impact, Easy Molding, Heat Stabilized.

Also known as: LNP\* THERMOTUF\* Compound PF-1003 EM HI HS

Product reorder name: PX06416

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Moldability		
	Heat Stabilized		
	High Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (24 hr)	0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>	4870	MPa	ASTM D638
Tensile Strength (Break)	82.7	MPa	ASTM D638
Tensile Elongation (Break)	3.1	%	ASTM D638
Flexural Modulus	3620	MPa	ASTM D790
Flexural Strength	124	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	96	J/m	ASTM D256
Unnotched Izod Impact (23°C)	800	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	97.2	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	249 to 260	°C	
Middle Temperature	266 to 277	°C	
Front Temperature	277 to 288	°C	
Processing (Melt) Temp	266 to 277	°C	
Mold Temperature	82.2 to 93.3	°C	

Back Pressure	0.344 to 0.689	MPa
Screw Speed	30 to 60	rpm
NOTE		
1.	50 mm/min	

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#### Recommended distributors for this material

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