

# LNPT<sup>™</sup> THERMOTUF<sup>™</sup> COMPOUND PF003IU

## DESCRIPTION

LNPT THERMOTUF PF003IU compound is based on Nylon 6 resin containing 15% glass fiber. Added features of this grade include: Impact Modified and UV Stabilized.

GENERAL INFORMATION	
Features	Impact resistant, Weatherable/UV stable
Fillers	Glass Fiber
Polymer Types	Polyamide 6 (Nylon 6)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Interiors
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

## TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL <sup>(1)</sup></b>			
Flexural Modulus, 1.3 mm/min, 50 mm span	4100	MPa	ASTM D790
Flexural Stress, yld, 1.3 mm/min, 50 mm span	145	MPa	ASTM D790
Tensile Stress, brk, Type I, 50 mm/min	103	MPa	ASTM D638
<b>IMPACT <sup>(1)</sup></b>			
Izod Impact, notched, 23°C	65	J/m	ASTM D256
Izod Impact, unnotched, 23°C	610	J/m	ASTM D4812
<b>THERMAL <sup>(1)</sup></b>			
HDT, 1.82 MPa, 3.2mm, unannealed	197	°C	ASTM D648
HDT, 0.45 MPa, 3.2 mm, unannealed	215	°C	ASTM D648
Vicat Softening Temp, Rate B/50	201	°C	ASTM D1525
<b>INJECTION MOLDING <sup>(2)</sup></b>			
Drying Temperature	100 – 110	°C	
Drying Time	3	Hrs	
Maximum Moisture Content	.02	%	
Melt Temperature	250 – 265	°C	
Nozzle Temperature	245 – 260	°C	
Front - Zone 3 Temperature	250 – 265	°C	
Middle - Zone 2 Temperature	245 – 260	°C	
Rear - Zone 1 Temperature	240 – 255	°C	
Mold Temperature	65 – 90	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Screw Speed	50 – 80	rpm	
Back Pressure	0.3 – 0.7	MPa	

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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