

LNPT[™] THERMOTUF[™] COMPOUND PF003IU

DESCRIPTION

LNP 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
MECHANICAL ⁽¹⁾			
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
IMPACT ⁽¹⁾			
Izod Impact, notched, 23°C	65	J/m	ASTM D256
Izod Impact, unnotched, 23°C	610	J/m	ASTM D4812
THERMAL ⁽¹⁾			
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
INJECTION MOLDING ⁽²⁾			
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.

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.