

LNP™ THERMOTUF™ COMPOUND VF008

VF-1008

REGION AMERICAS

DESCRIPTION

LNP THERMOTUF VF008 is a compound based on Super Tough Nylon resin containing 40% Glass Fiber. Added feature of this material is: High Impact.

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	126	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3.3	%	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	194	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	8600	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	127	MPa	ISO 527
Tensile Strain, break, 5 mm/min	3.3	%	ISO 527
Tensile Modulus, 1 mm/min	9900	MPa	ISO 527
Flexural Modulus, 2 mm/min	8530	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1050	J/m	ASTM D 4812
Izod Impact, notched, 23°C	171	J/m	ASTM D 256
Multiaxial Impact	5	J	ISO 6603
Instrumented Impact Total Energy, 23°C	9	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	58	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	17	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	258	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	245	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.24E-05	1/°C	ASTM E 831
Thermal Conductivity	0.38	W/m-°C	ASTM E 1530
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	255	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	238	°C	ISO 75/Af
PHYSICAL			

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Specific Gravity	1.38	-	ASTM D 792
Density	1.4	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.45	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.5 – 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1 – 3	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.66	%	ISO 62
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15	%	
Melt Temperature	280 – 295	°C	
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	275 – 290	°C	
Rear - Zone 1 Temperature	260 – 270	°C	
Mold Temperature	95 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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