LNP™ THERMOTUF™ COMPOUND VF008

VF-1008
REGION ASIA

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 20190411

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	131	MPa	ASTM D 638
Tensile Strain, break	3	%	ASTM D 638
Flexural Stress	193	MPa	ASTM D 790
Flexural modulus	9640	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	891	J/m	ASTM D 4812
Izod Impact, notched, 23°C	182	J/m	ASTM D 256
THERMAL			
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
Relative Temp Index, Elec [1]	65	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	65	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	65	°C	UL 746B
PHYSICAL			
Density	1.4	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.5	%	ASTM D 570
ELECTRICAL			
Comparative Tracking Index (UL) {PLC}	0	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 3	≥1.5	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥1.5	mm	UL 746A
High Voltage Arc Track Rate {PLC}	1	PLC Code	UL 746A
Arc Resistance, Tungsten {PLC}	6	PLC Code	ASTM D 495
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E207780-103093687	-	-
UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94
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	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Rear - Zone 1 Temperature	260 – 270	°C	
Mold Temperature	95 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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