



LNP™ THERMOTUF™ Compound VF008

Americas: COMMERCIAL

Also known as: LNP™ THERMOTUF™ Compound VF-1008

Product reorder name: VF008

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 PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	1280	kgf/cm ²	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	1970	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	87600	kgf/cm ²	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	107	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	17	cm-kgf/cm	ASTM D 256
Multiaxial Impact	59	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	99	cm-kgf	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			
Specific Gravity	1.38	-	ASTM D 792



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
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



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
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