



LNP™ THERMOTUF™ Compound W1000I

Europe-Africa-Middle East: COMMERCIAL

Also known as: LNP™ THERMOTUF™ Compound W1000HI

Product reorder name: W1000I

LNP THERMOTUF W1000I is a compound based on Polybutylene Terephthalate resin. Added features include: High Impact

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield, 5 mm/min	36	MPa	ISO 527
Tensile Modulus, 1 mm/min	1500	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	46	MPa	ISO 178
Flexural Modulus, 2 mm/min	1600	MPa	ISO 178
IMPACT			
Izod Impact, notched 80*10*4 +23°C	70	kJ/m ²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	1.4E-04	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.32E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	80	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	52	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow (5)	2 - 2.4	%	SABIC Method
Density	1.22	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.1	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+15	Ohm	ASTM D 257



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	240 - 265	°C
Front - Zone 3 Temperature	260 - 270	°C
Middle - Zone 2 Temperature	245 - 255	°C
Rear - Zone 1 Temperature	220 - 230	°C
Mold Temperature	80 - 100	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm