

TGF30BN

Leader Tech's TGF30BN (boron nitride) material, has a very low dielectric constant, which ensure signal reception, smooth transmissions and shorter delay time in between signal transmissions.

Features:

- Soft and excellent compression performance
- Low thermal resistance
- Excellent insulation
- Viscous surface
- Excellent low pressure performance

Applications:

- Heat dissipation modules
- Optoelectronic Industry
- Netcom products
- Renewable energy batteries
- Household appliances
- Wearable equipments

Storage Conditions:

- Store in the darkness
- Storage Temperature: $\leq 30^{\circ}\text{C}$
- Storage Humidity: $\leq 70\%$
- When stacking the parts, the parts should not be higher than 7 layers or more than 1mm

Shelf Life:

- Stored at storage conditions: Two years
- Stored in unqualified storage conditions: 6 months

Properties:

Item	Parameter	Unit	Test Method
Color	White	-	Visual
Specification	200*400	mm	ASTM D5947
Thickness	1-3	mm	ASTM D374
Hardness	50~70(±10)	Shore 00	ASTM D2240
Density	1.5(±0.5)	g/cc	ASTM D792
Tensile Strength	≥0.15	Mpa	ASTM D412
Compression Ratio	≥20(@50PSI)	%	ASTM D695
UL Certification	V-0	-	UL94
Operating Temperature	-50 ~ 160	°C	IEC 600068-2-14

Thermal Characteristics:

Thermal Conductivity	3.0 (±0.5)	W / m·K	ASTM D5470
Thermal Resistance	≤1.2(@20PSI/1mm)	°Cin ² /W	ASTM D5470

Electrical Properties:

Breakdown Voltage	≥10(@1mm)	KV/mm	ASTM D149
Volume Resistivity	10 ¹⁰	Ω·cm	ASTM D257
Dielectric Constant	≤3.5	@1MHz	ASTM D 150
Dielectric loss	≤0.002	@1MHz	ASTM D 150

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EMI/RFI Board, Enclosure, Cable Shielding & Thermal Solutions



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