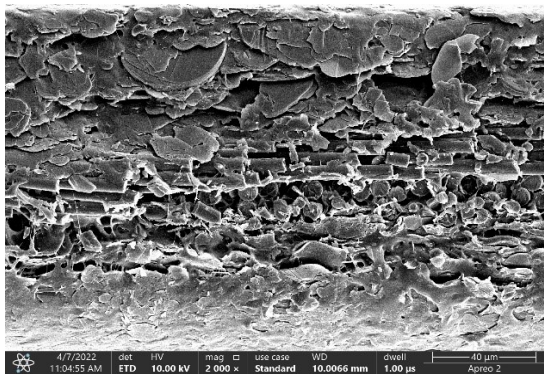


导热绝缘氮化硼薄膜 Thermally conductive and insulating boron nitride film



二维氮化硼玻纤垫片 截面SEM

Cross-sectional SEM of two-dimensional boron nitride fiberglass gasket



NDST-SB110-85 (Custom White) It is a thermally conductive and insulating material based on two-dimensional boron nitride nanosheets. This material has excellent properties such as high insulation, low dielectric constant, high thermal conductivity, no oil exudation, high tear resistance, and high mechanical strength. This high-voltage resistant insulating thermal conductive material has both high insulation and high thermal conductivity, with a smooth surface that can effectively reduce contact thermal resistance. It is currently at a leading level domestically in the field of electronic packaging materials.

特性 Features

- Low dielectric constant: [4.0@5GHz](#)
- High insulation, withstands 5 kV voltage breakdown
- High mechanical performance
- Can be cut arbitrarily according to the size and shape of the heating power device

应用 Applications

- DC/DC Power Module
- AC/DC Power module
- Motor control
- Power semiconductor
- Aerospace electronic equipment

性能测试 Properties test

项目 Test Items	单位 Unit	数值 Data	测试标准 Test Method
厚度 Thickness	mm	0.254/0.38/0.508	ASTM D374
密度 Density	g/cm ³	1.66	ASTM D792
硬度 Hardness	Shore A	90	ASTM D2240
使用温度 Application temperature	°C	-50~180	
拉伸强度 Tensile Strength	MPa	12.18	ASTM D412
击穿电压 Dielectric breakdown	kV	>5	ASTM D149
介电强度 Dielectric strength	kV/mm	30	ASTM D149
介电常数 Dielectric Constant	5GHz	4.0	ASTM D150
热阻 Thermal resistance	°C/W	0.21	ASTM D5470
垂直热导率 Vertical Thermal Conductivity	W/(m·K)	2.0	ASTM E1461
阻燃等级 Class of flammability		V-0	UL-94

产品型号编码说明 Building a Part Number

SB110-85

材料 Materials

抗高电压击穿系列 Series

➢ This product has undergone -40~125°C thermal cycling and Double 85 testing, and the product shows no changes.

➢ The above data was obtained from measurements conducted by the laboratory of Shenzhen Nordest Technology Co., Ltd., which reserves the right of final interpretation.