



产品技术说明书

Product technical specification

一. 产品描述 Product Description

超薄聚酰亚胺绝缘膜（PI膜）系列是一种高性能的薄膜类绝缘材料，具有耐高温、绝缘性好、厚度极薄等特点，常用于柔性电路板（FPC）、电磁线等精密电子领域。

The ultra-thin polyimide insulation film (PI film) series is a high-performance thin-film insulation material, featuring high temperature resistance, excellent insulation, and extremely thin thickness. It is commonly used in precision electronic fields such as flexible printed circuits (FPC) and electromagnetic wires.

二. 产品结构 Product structure



PI

三. 主要用途 Main Use

- ✧ 主要应用于电子设备的高温防护、绝缘保护及柔性电路、电磁线、精密电子领域，尤其在可穿戴设备、精密电子元件和工业控制中表现突出。

Mainly used for high-temperature protection and insulation of electronic devices, as well as in flexible circuits, electromagnetic wires, and precision electronics. It is particularly outstanding in wearable devices, precision electronic components, and industrial control.

四. 典型性能 Typical performance

型号 Model	P6801A	P6802A	P6802AH
技术参数 items Technical Specifications			
颜色 Color	茶色 brown	茶色 brown	茶色 brown
材质 Material	PI	PI	PI

总厚度 Total thickness [μm]	1	2	2
拉伸强度 Tensile strength [MPA]	MD 301 TD 239	MD 333 TD 283	MD 339 TD 272
断裂伸长率 Elongation at break [%]	MD 16.6 TD 14.9	MD 25 TD 24.6	MD 32.5 TD 21.3
模量 Elastic Modulus [GPa]	MD 9 TD 7.7	MD 8.9 TD 8.5	MD 8 TD 8.4
热膨胀系数 CTE [ppm/ $^{\circ}\text{C}$]	MD 5.5 TD 5.6	MD 0.71 TD 6.33	MD 3.74 TD 8.16
电压 Voltage [KV]	0.24	0.28	0.52
击穿强度 Breakdown strength [KV/mm]	240	140	260

五. 产品规格 Product specifications

➤ 520mm*1000m

➤ 或其他定制

Other customization

六. 储存及保质期 Storage and shelf life

室内0-40 $^{\circ}\text{C}$, 40%-70% RH 环境中, 避免日光直射, 建议生产日期后24个月內使用完毕。

Keep indoors at 0-40 $^{\circ}\text{C}$ and 40%-70% RH, avoiding direct sunlight. It is recommended to use within 24 months from the production date.