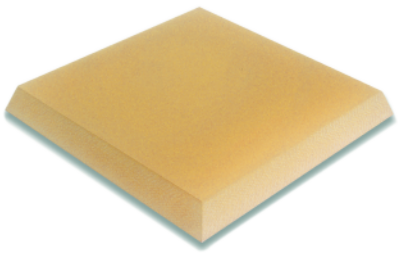
CJ825

Description 产品描述

CJ825由玻璃纤维布在高温的环境下与易加工环氧树脂制造而成。此产品能够达到GB 3240的性能要求，在中等高温的环境下具有很好的机械强度和电气性能。其在机械应用中的连续操作温度为110℃。总体性能比CJ822更好。

CJ825 is constructed of a woven glass fabric combined with a high temperature, easy machining epoxy resin. It is engineered to provide GB 3240 properties, which has very good mechanical strength and electrical properties at moderate temperatures. The continuous operating temperature is 110℃ in mechanical applications. The overall performance is better than CJ822.



产品特点

- 耐温等级B级；
- 良好的机械加工性；
- 中等温度下机械性能较高；
- 优异的电气绝缘性能。

Features

- The grade of heating resistance class is B;
- Easy for processing and machining;
- High mechanical strength under moderate temperature;
- Excellent electrical insulation performance.

制造能力

厚度范围

- 0.127mm – 150mm

板材尺寸

- 1219mm x 2438mm
- 1219mm x 1219mm
- 914mm x 1219mm

切割板材和加工成型件都可提供。

Manufacturing Capabilities

Thickness Range

- 0.127mm – 150mm

Sheet Size

- 1219mm x 2438mm
- 1219mm x 1219mm
- 914mm x 1219mm

Cut panels and machined parts are also available.

行业标准

- GB/T1303.1-1998 3240

Industry Standard

- GB/T1303.1-1998 3240

产品应用

- 电机和发电机的槽条和槽楔；
- 电气设备和变压器的绝缘结构部件；
- 印刷电路板测试夹具；
- 电子应用领域的针板和载板。

Application

- Groove strip and slot wedge of motors and generators;
- Insulating structural parts for electrical appliances and transformers.
- Test fixtures for printed circuit board;
- Needle plate and carrier board for electronics application.

产品特性 TYPICAL PROPERTIES		测试方法 TEST METHOD	处理条件 CONDITIONING	单位 UNITS	平均值 TYPICAL VALUE
物理性能 PHYSICAL PROPERTIES					
密度 Density		GB/T 5130–1997 Section 8.1	NA	mg	1.9
吸水性 Water Absorption		GB/T 5130–1997 Section 8.2	D1–24/23	cm^3	10.9
机械性能 MECHANICAL PROPERTIES					
垂直层向弯曲强度 Flatwise Flexural Strength (≥1.6mm)	纵向 LW	GB/T 5130–1997 Section 5.1	A	Mpa	600
	横向 CW		A	Mpa	493
弯曲弹性模量 Flex Modulous (≥1.6mm)	纵向 LW	GB/T 5130–1997 Section 5.2	A	Mpa	27,430
压缩强度 Compressive Strength (≥5mm)	垂直层向 Perpendicular	GB/T 5130–1997 Section 5.3	A	Mpa	475
拉伸强度 Tensile Strength (≥1.6mm)	纵向 LW	GB/T 5130–1997 Section 5.7	A	Mpa	390
	横向 CW		A	Mpa	330
粘合强度 Bonding Strength (≥10mm)		GB5130–85	A	N	9200
简支梁缺口冲击强度 Notched Charpy Impact Strength (≥5mm)	平行层向 (纵向) Parallel (LW)	GB/T 5130–1997 Section 5.5	A	kJ/m^2	69
	平行层向 (横向) Parallel (CW)		A	kJ/m^2	53
悬臂梁缺口冲击强度 Notched Izod Impact Strength (≥5mm)	平行层向 (纵向) Parallel (LW)	GB/T 5130–1997 Section 5.5	A	kJ/m^2	75
	平行层向 (横向) Parallel (CW)		A	kJ/m^2	59

产品特性 TYPICAL PROPERTIES		测试方法 TEST METHOD	处理条件 CONDITIONING	单位 UNITS	平均值 TYPICAL VALUE
热性能 THERMAL PROPERTIES					
DMA法玻璃化转变温度 Tg by DMA		NA	NA	℃	110
电气性能 ELECTRICAL PROPERTIES					
介电常数 Permittivity 1MHz(≤3mm)		GB/T 5130–1997 Section 6.2	A	–	4.8
介质损耗因素 Dissipation Factor 1MHz(≤3mm)		GB/T 5130–1997 Section 6.2	A	–	0.02
表面电阻率 Surface Resistivity		GB/T 5130–1997 Section 6.3	A	MΩ	$7.2x10^{11}$
			D–24h/(23±2)℃		$4.5x10^{11}$
体积电阻率 Volume Resistivity		GB/T 5130–1997 Section 6.3	A	MΩ·m	$1.0x10^{10}$
			D–24h/(23±2)℃		$2.7x10^{9}$
绝缘电阻 Insulation Resistance	平行层向 Parallel	GB/T 5130–1997 Section 6.3	A	MΩ	$3.3x10^{8}$
			D–24h/(23±2)℃		$1.1x10^{9}$
击穿电压 Breakdown Voltage (>3mm)	平行层向 Parallel	IEC 60893	90±2℃ Oil	KV	>44
电气强度 Dielectric Strength (≤3mm)	垂直层向 Perpendicular	IEC 60893	90±2℃ Oil	MV/m	19

该测试结果是基于三种标准厚度得出的，分别为1.588mm(1/16")，3.175mm(1/8")和12.7mm(1/2")。

本数据基于精确及可靠的分析方法上，仅作参考之用。此产品的任何销售行为均受其项下的销售合同条款控制。以上所提供的数据为“平均值”，不被视为“规范值”。

为了确保该材料对于某特定应用的适用性，客户不能依赖于诺普莱克斯-迈咔达所提供的材料性能特点，而应自行进行测试核实。

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数据规范编写员：提交前请联系诺普莱克斯-迈咔达获取规范值。

Data is obtained from three standard thicknesses – 1.588mm (1/16”), 3.175mm (1/8”) and 12.7mm (1/2”).

This data, while believed to be accurate and based on reliable analytical methods, is for informational purposes only. The terms and conditions of the agreement under which it is sold will govern any sales of this product. Data supplied above are "typical values"; not to be considered "specification values".

To assure the material's performance is adequate for a specific application; customers should verify, independent of Norplex-Micarta, performance characteristics of interest.

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Specification writers: Contact Norplex-Micarta for specification values before submission.