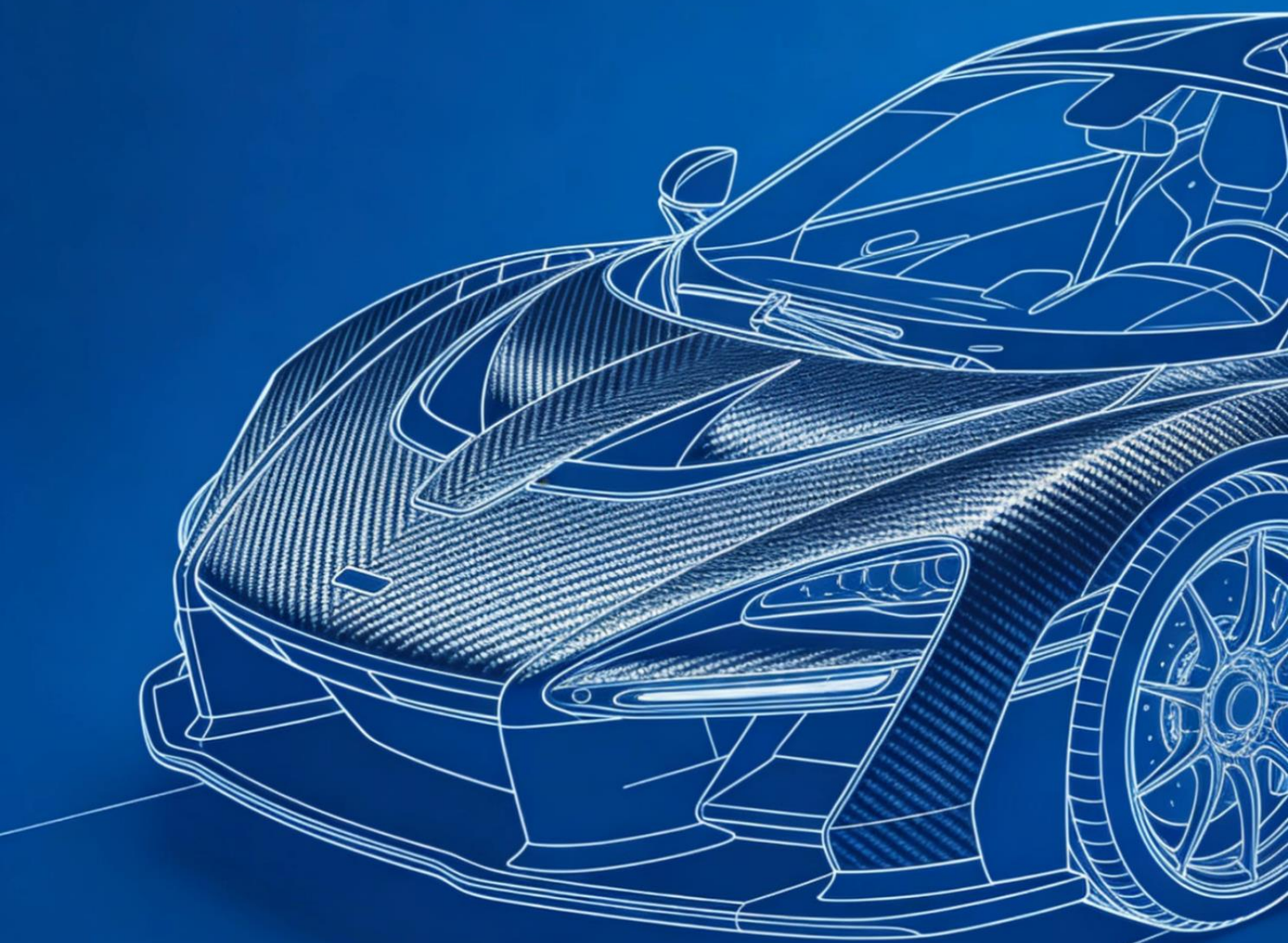
华镁复材
HUAMEI COMPOSITE



江苏华镁复合材料科技有限公司

Jiangsu Huamei Composite Material Co., Ltd.

华镁复材
HUAMEI COMPOSITE

公司简介

Company Introduction

江苏华镁复合材料科技有限公司位于江苏省宿迁市泗洪县，公司的经营理念是质量第一、开拓创新，业务范围是自主研发的聚氨酯（复合）预浸料、不饱和树脂SMC，拥有自主知识产权致力于对复合材料新材料、新工艺不断探索，为客户提供更多的选择，创造更大的价值。

Jiangsu Huamei Composite Material Technology Co., Ltd. is located in Sihong County, Suqian City, Jiangsu. The company's business philosophy is quality first and innovation, and the business scope is self-developed polyurethane prepreg, unsaturated resin SMC, with independent intellectual property rights, committed to the continuous exploration of new composite materials and new processes, to provide customers with more choices and create greater value.

资质证书

Qualification certificates



Certificate of Registration

nqa.

益证明

江苏华镁复合材料科技有限公司

江苏省宿迁市泗洪县石集乡胡丰路1号

(IATF USI: YX6M9P)

的汽车生产件及相关服务件组织的质量管理体系要求适用于

片状模塑料（SMC片材）、聚氨脂预浸料的生产

已经NQA根据标准

IATF 16949:2016

（删减产品设计）

审核和注册

本注册要求组织必须按照上述标准保持其汽车生产件及相关服务件组织的质量管理体系，并由NQA进行监督。
若有任何争议，以英文证书为准。
获证组织必须定期接受监督审核并经审核合格，此证书方继续有效。
本证书信息可在国家认证认可监督管理委员会官方网站(www.cnca.gov.cn)上查询。
SNQA查询网站：www.snqa.com.cn

总经理

NQA证书编号： T198137
IATF证书编号： 0602134
首次发证日期： 2026年04月17日
有效期至： 2029年04月16日
版本： 1

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Certificate of Registration

nqa.

This is to certify that the Quality Management System of:

Jiangsu Huamei Composite Materials Technology Co., Ltd.

No.1 Yifeng Road, Shiji Township, Sihong County, Suqian City, Jiangsu Province, China
(IATF USI: YX6M9P)

applicable to:

Manufacturing of sheet film plastic (SMC sheet) and polyurethane prepreg

has been assessed and registered by NQA, Warwick House, Houghton Hall Park, Houghton Regis, Dunstable, LU5 5ZX, UK
against the provisions of:

IATF 16949:2016

(Clause 8.3 product design of IATF 16949:2016 is justifiably excluded)

This registration is subject to the company maintaining a quality management system to the above standard, which will be monitored by NQA.

Managing Director

NQA Certificate No: T198137
IATF Certificate No: 0602134
First Issue Date: 17 April 2026
Valid Until: 16 April 2029
Version: 1

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Revision Date: Feb 2017

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Issue 3



质量管理体系认证证书

江苏华镁复合材料科技有限公司

GB/T 19001-2016/ISO 9001:2015

SMC片材（复合型预浸料）的生产

IAF CNAS



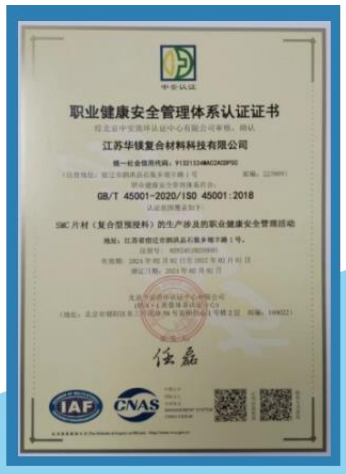
环境管理体系认证证书

江苏华镁复合材料科技有限公司

GB/T 24001-2016/ISO 14001:2015

SMC片材（复合型预浸料）的生产涉及的环境管理活动

IAF CNAS



职业健康安全管理体系认证证书

江苏华镁复合材料科技有限公司

GB/T 45001-2020/ISO 45001:2018

SMC片材（复合型预浸料）的生产涉及的职业健康安全管理活动

IAF CNAS

产品介绍

product Introduction

CSFCM-聚氨脂复合预浸料

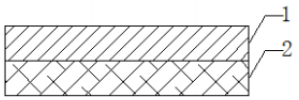
CSFCM—polyurethane composite prepreg

聚氨脂复合预浸料CSFCM（continue and short fiber compressiong moulding）由聚氨脂树脂基体、玻璃纤维增强体、助剂等组成。其中玻璃纤维增强体由编织布和短切纤维组成，使复合预浸料兼具常规环氧预浸料及SMC片材二者的优点，完全满足强度、阻燃、气密、电性能、禁用物质等性能要求，解决了传统预浸料PCM成本高效率低的行业痛点。

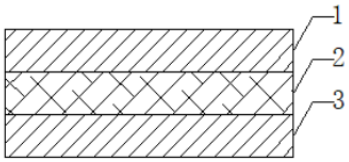
Polyurethane prepreg CSFCM (Continuous Short Fiber Compression Molding) is composed of a polyurethane matrix, a glass fiber reinforcement, additives, and other components. The glass fiber reinforcement consists of woven fabric and chopped fibers, enable the composite prepreg to combine the advantages of conventional epoxy prepreg and SMC . It fully meets performance requirements such as strength, flame retardancy, airtightness, electrical properties, and restricted substances, addressing the industry pain points of high cost and low efficiency associated with traditional PCM prepreg.

CSFCM的结构形式如下所示

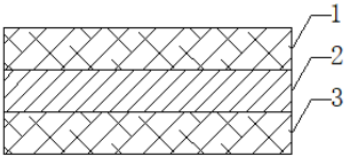
The structural form of csFCM is as follows:



特征形式1



特征形式2



特征形式3

产品介绍

product Introduction

CSFCM-聚氨脂复合预浸料&环氧预浸料

CSFCM Polyurethane prepreg&Epoxy prepreg

1、环氧预浸料材料裁切、铺层效率、材料利用率、固化效率低。

2、聚氨脂复合预浸料可根据产品定制面密度、幅宽，裁切、铺层效率、材料利用率，均可实现大幅提升，200秒以内实现完全固化。

1. The cutting, layup efficiency, material utilization rate, and curing efficiency of epoxy prepreg materials are low.

2. Polyurethane prepreg allow for customization of areal density and width based on product requirements, significantly improving cutting and layup efficiency as well as material utilization. Complete curing can be achieved within 200 seconds.

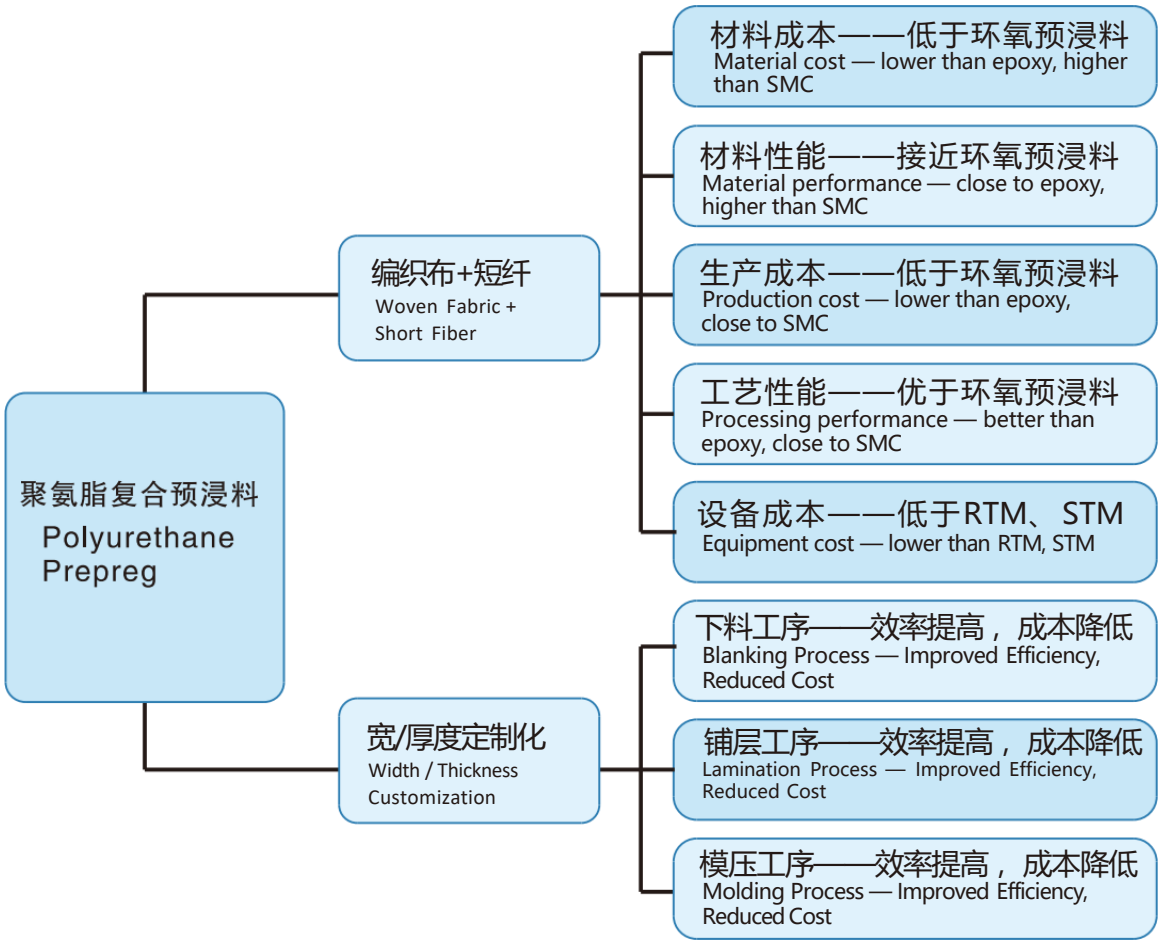
材料 Material	材料组成 Material composition	幅宽(mm) width(mm)	厚度(mm) thickness(mm	裁切(厚度1.5mm) cropping (Thickness 1.5 mm)	铺层(厚度1.5mm) lamination (Thickness 1.5 mm)	固化时间(SEC) curing time (SEC)
环氧预浸料 Epoxy prepreg	织物+环氧树脂 Fabric+epoxy resin	1000/1270	0.2/0.32	5次 5 times	5层 5 Layers	400
聚氨脂复合预浸料 Polyurethane complex prepreg	织物+短纤+聚氨脂树脂 Fabric+staple fiber +polyurethane resin	1000-1500	0.6-2.5	2次 2 times	2层 2 Layers	200

产品介绍

product Introduction

CSFCM–聚氨脂复合预浸料

CSFCM —Polyurethane Prepreg



产品介绍

product Introduction

性能对比
Performance Comparison

测试样板 Test template	厚度（Mm） Thickness (mm)	织物结构 Fabric structure	铺层 Layering	拉伸 stretch		弯曲 Bend		冲击 (KJ/m2) Impact (KJ/m2)	面内剪切 shear in plane	
				强度（Mpa）	模量（Gpa）	强度（Mpa）	模量（Gpa）		强度（Mpa	模量（Gpa）
环氧玻纤板 EPoxY fiberglass board	1	18#玻纤板 8#Fiberglass board	0/90/0/0/90/0	519.53	23.35	502	19.5	271	75.2	3.5
PU玻纤板 PU Fiberglass board	1	18#玻纤板 8#Fiberglass board	0/90/0/0/90/0	538.1	27.82	606	23.2	273.5	78.6	3.7
PU碳纤板 pu carbon fiber board	1	3K+UD	3K/0/90/0/0/90/0+3K	537.98	43.27	688	39.6	331	52.95	2.136
PU玻纤板 PU Fiberglass board	1	400克方格布 400grams checkered cloth	NA	450.48	22.55	532	19.3	290	68.03	2.817
PU玻纤板 PU Fiberglass board	1	CSFCM	CSFCM9060*2层 CSFCM9060"2layers	364	21.3	572	20.5	109	161	60.7

应用行业

Application Industry

聚 氨 酯 预 浸 料

Polyurethane Prepreg

汽车行业 Automotive Industry

产品特点 Product Features

优异的机械性能（韧性高于传统环氧20-30%）	Excellent mechanical properties (with toughness 20-30% higher than traditional epoxy resins)
快速固化（2-5MIN）	Rapid curing (2-5 minutes)
优异的阻燃性	Excellent flame retardancy
耐老化、耐污染	Aging resistance and contamination resistance
优异的产品性能稳定性	Outstanding product performance stability
无VOC挥发	No VOC emissions

主要产品应用 Major Product Applications

电池盒上盖/汽车部件 — Battery cover / Automotive components



产品介绍

product Introduction

CSFCM9060					
序号 Serial number	试验项目 Pilot project	测试标准 Test standard	指标 Indicator		备注 Note
			平均值Average	单位 Unit	
1	材质 Material	GB/T 2577-2005	51~56	%	
2	密度 Density	GB/T 1033.1-2008	1.90	g/cm^3	
3	吸水性 Absorbency	GB/T 1462 方法1 GB/T 1462 Method 1	0.03	%	
4	阻燃 Flame retardant	UL94垂直燃烧试验方法 UL94 Vertical burning test method	Vo	/	
5	热变形温度 Hot deformation temperature	GB/T 1634.2 -2004	160.80	℃	
6	导热系数 Thermal conductivity	GB/T3399-1982	0.04	/	
7	绝缘电阻 Insulation resistance	GB/T31838.4 -2019	>1000	MQ	
8	耐电压 Voltage resistance	GB/T 1408.1-2016	1.72	m	
9	介电常数 Dielectric constant	GB/T 1409-2006	4.80	/	
10	拉伸强度 Tensile strength	GB/T 1447-2005	364.00	Mpa	
11	拉伸模量 Tensile modulus	GB/T 1447-2005	21.30	Gpa	
12	弯曲强度 Bending strength	GB/T 1449-2005	572.00	Mpa	
13	弯曲模量 Bending modulus	GB/T 1449-2005	20.50	Gpa	
14	面内剪切强度 In-plane shear strength	GB/T 3355-2014	161.00	Mpa	
15	面内剪切模量 In-plane shear modulus	GB/T 3355-2014	60.70	Gpa	
20	缺口冲击强度 Impact strength of notch	GB/T 1451	109.00	kJ/m2	
23	高温高湿 High temperature and high humidity	ASTM D3039-17温度85 ±3℃,湿度 82%~88%RH的恒温恒湿箱1000h ASTM D3039-17 temperature 85 ±3℃, humidity 82%~88% RH constant temperature and humidity chamber1000h	所有 11项指标符合要求 11 indicators meet the requirements	All	
24	温度冲击 Temperature shock	GB/T 31838.4-2019,-40℃~85℃的交变温度环境中，两种极端温度的转换时间在30min,每个极端温度环境中保30min,2h一个循环，测试500个循环，共1000h。 GB/T 31838.4-2019,-40℃~85℃ alternating temperature environment, the conversion time two extreme temperatures is within 30min, each extreme temperature environment is maintained for 30min, 2h a cycle, 500 cycles are tested, total of 1000h.	所有 11项指标符合要求 11 indicators meet the requirements	All	
26	耐盐雾 Salt spray resistance	GB/T 2423.18 (672 小时) GB/T2423.18(672hours)	所有 7项指标符合要求 All 7 indicators meet the requirements		
31	禁用物质 Prohibited substances	GB/T 30512 -2014	符合 complies with	/	
32	泊松比 Poisson's ratio	GB/T 1040.2 -2022	0.240	/	

应用行业

Application Industry

聚 氨 酯 预 浸 料

Polyurethane Prepreg

冷藏集装箱 Refrigerated container

产品特点 Product Features

优异的机械性能（韧性高于传统环氧20-30%）	Excellent Mechanical Properties (Toughness 20-30% Higher than Traditional Epoxy)
快速固化（2-5MIN）	Rapid curing (2-5 MIN)
优异的阻燃性	Excellent Flame Retardancy
耐老化、耐污染	Aging Resistance, Pollution Resistance
优异的产品性能稳定性	Excellent Product Performance Stability
无VOC挥发	No VOC volatilization
通过ROHS、 FDA、 REACH检测热桥效应小，导热系数低，卓越的保温性能	Low thermal bridging effect, low thermal conductivity, excellent insulation performance

主要产品应用 Major Product Applications

冷藏厢内板	Refrigerated compartment inner panel



应用行业

Application Industry

聚 氨 酯 预 浸 料

Polyurethane Prepreg

光伏行业 Photovoltaic industry

产品特点 Product Features

优异的机械性能（韧性高于传统环氧20-30%）	Excellent Mechanical Properties (Toughness 20-30% Higher than Traditional Epoxy)
快速固化（2-5MIN）	Rapid curing (2-5 MIN)
优异的阻燃性	Excellent Flame Retardancy
耐老化、耐污染	Aging Resistance, Pollution Resistance
优异的产品性能稳定性	Excellent Product Performance Stability
无VOC挥发	No VOC volatilization
热桥效应小，导热系数低，卓越的保温性能	Low thermal bridging effect, low thermal conductivity, excellent insulation performance

主要产品应用 Major Product Applications

光伏背板	Photovoltaic backsheet





产品介绍

product Introduction

聚 氨 酯 预 浸 料 （ 碳 纤 维 ）

Polyurethane prepreg (carbon fiber)

聚氨酯碳纤维预浸料由聚氨酯树酯基体、碳纤维增强体、助剂等组成。其中 碳纤维增强体包括编织布、单向丝和短切碳纤维丝。

聚氨酯碳纤维强度性能优异，韧性增强，固化效率高，生产成本降低。

Polyurethane carbon fiber prepreg consists of a polyurethane resin carbon fiber reinforcement, and additives. The carbon fiber reinforcement includes woven fabrics, unidirectional fibers, and chopped carbon fiber.

Polyurethane carbon fiber exhibits excellent strength properties, enhanced toughness, high curing efficiency, and reduced production costs.

序号 serial number	检测项目 Detection items	检测标准 Detection standard	单位 unit	检测结果 Detection results
1	拉伸强度 TensilE StrEngth	GB/T 33613-201 7	Mpa	538
2	拉伸模量 Tensile modulus	GB/T 33613-201 7	Gpa	43.3
3	弯曲强度 Bending strEngth	GB/T1449-2005	Mpa	688
4	弯曲模量 Bending modulus	GB/T 1 449-2005	Gpa	39.6
5	层间剪切 Interlayer s hear	iso 14130： 1 997	Mpa	87.2
6	Tg （ DSC ）	ISO 1 1 357-2： 1 999	℃	1 06

应用行业

Application Industry

运动休闲行业 Sports and Leisure Industry

聚氨酯预浸料（碳纤维）

Polyurethane prepreg (carbon fiber)

产品特点 Product Features	优异的机械性能（韧性高于传统环氧20-30%）	Excellent Mechanical Properties (Toughness 20-30% Higher than Traditional Epoxy)
	快速固化（2-5MIN）	Rapid curing (2-5 MIN)
	优异的阻燃性	Excellent Flame Retardancy
	耐老化、耐污染	Aging Resistance, Pollution Resistance
	优异的产品性能稳定性	Excellent Product Performance Stability
	无VOC挥发	No VOC volatilization
主要产品应用 Major Product Applications	碳纤维头盔/碳纤维鞋底	Carbon fiber helmet / Carbon fiber sole



碳纤维鞋底
Carbon fiber sole



碳纤维头盔
Carbon fiber helmet

应用行业

Application Industry

运动休闲行业 Sports and Leisure Industry

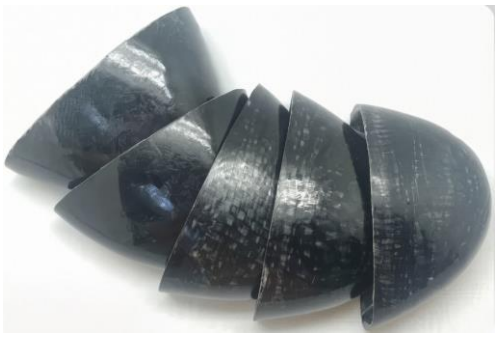
聚氨酯预浸料（碳纤维）

Polyurethane prepreg (carbon fiber)

产品特点 Product Features	优异的机械性能（韧性高于传统环氧20-30%）	Excellent Mechanical Properties (Toughness 20-30% Higher than Traditional Epoxy)
	快速固化（2-5MIN）	Rapid curing (2-5 MIN)
	优异的阻燃性	Excellent Flame Retardancy
	耐老化、耐污染	Aging Resistance, Pollution Resistance
	优异的产品性能稳定性	Excellent Product Performance Stability
	无VOC挥发	No VOC volatilization
主要产品应用 Major Product Applications	运动及防护器材	Sports and protective equipment



复合材料鞋头
Composite toe



碳纤维鞋头
Carbon fiber toe

应用行业

Application Industry

运动休闲行业 Sports and Leisure Industry

聚氨酯预浸料（碳纤维）

Polyurethane prepreg (carbon fiber)

产品特点 Product Features	优异的机械性能（韧性高于传统环氧20-30%）	Excellent Mechanical Properties (Toughness 20-30% Higher than Traditional Epoxy)
	快速固化（2-5MIN）	Rapid curing (2-5 MIN)
	优异的阻燃性	Excellent Flame Retardancy
	耐老化、耐污染	Aging Resistance, Pollution Resistance
	优异的产品性能稳定性	Excellent Product Performance Stability
	无VOC挥发	No VOC volatilization
主要产品应用 Major Product Applications	碳纤维无人机	carbon fiber UAV/drone



碳纤维无人机
carbon fiber UAV



碳纤维无人机
carbon fiber drone

应用行业

Application Industry

运动休闲行业 Sports and Leisure Industry

聚氨酯预浸料（碳纤维）

Polyurethane prepreg (carbon fiber)

产品特点 Product Features	优异的机械性能（韧性高于传统环氧20-30%）	Excellent Mechanical Properties (Toughness 20-30% Higher than Traditional Epoxy)
	快速固化（2-5MIN）	Rapid curing (2-5 MIN)
	优异的阻燃性	Excellent Flame Retardancy
	耐老化、耐污染	Aging Resistance, Pollution Resistance
	优异的产品性能稳定性	Excellent Product Performance Stability
	无VOC挥发	No VOC volatilization
主要产品应用 Major Product Applications	碳纤维箱体	Carbon fiber enclosure



碳纤维贮运防护箱
Carbon Fiber Storage & Transport Protective Case



碳纤维医疗箱
Carbon Fiber Medical Protective Case

产品介绍

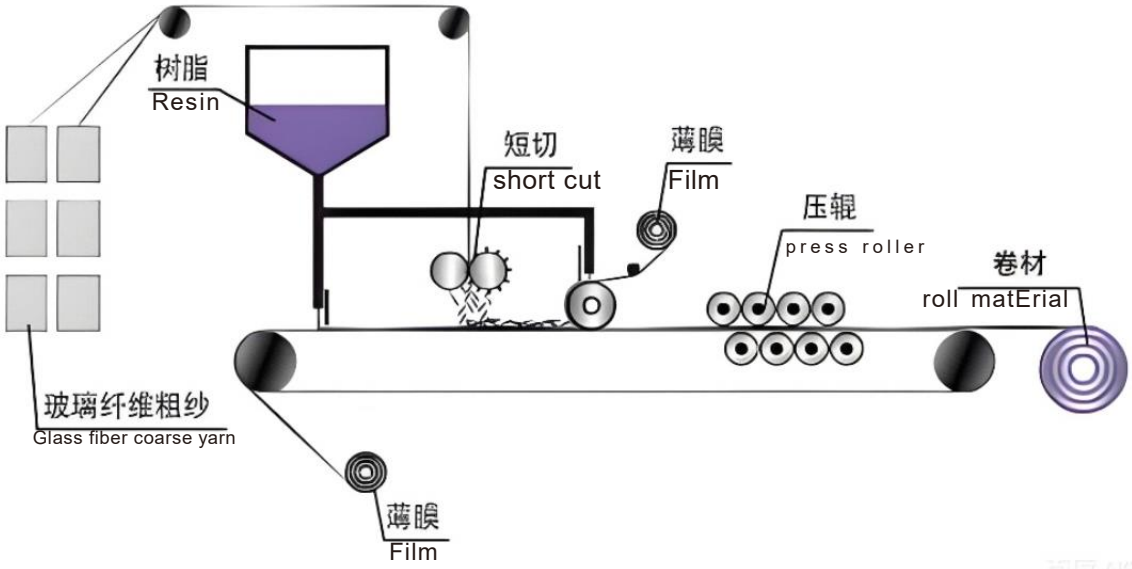
product Introduction

不饱和聚酯SMC（片状模塑料）

unsaturated polyester SMC (sheet Molding compound)

SMC（片状模塑料）由短切玻璃纤维、树脂、碳酸钙等组分混合而成的一种片状模塑料，广泛应用于汽车、高铁、建筑、卫浴、电器等领域。

SMC (Sheet Molding Compound) is a sheet molding compound composed of components such as chopped glass fiber, resin, and calcium carbonate, widely used in automotive, high-speed rail, construction, bathroom, and electrical appliance industries.



应用行业

Application Industry

不 饱 和 聚 酯S M C

Unsaturated Polyester SMC

光伏行业 Photovoltaic industry

产品特点 Product Features

优异的机械性能轻量化
耐老化 、 耐污染
优异的产品性能稳定性
良好的加工性能

Excellent Mechanical Properties and Lightweight Design
Aging Resistance, Pollution Resistance
Excellent Product Performance Stability
Good Machining Performance

主要产品应用 Major Product Applications

高顶/导流罩/保险杠/踏板等

High Roof / Fairing / Bumper / Pedal, etc.



上车踏板、侧裙板、保险杠、侧围饰板、车门下饰板、
发动机罩 、全包围导流罩

Fender; side skirt ; bumper; side panel ; door sill; bonnet ; full body fairing

应用行业

Application Industry

不 饱 和 聚 酯S M C

Unsaturated Polyester SMC

卫浴行业 Bathroom industry

产品特点 Product Features

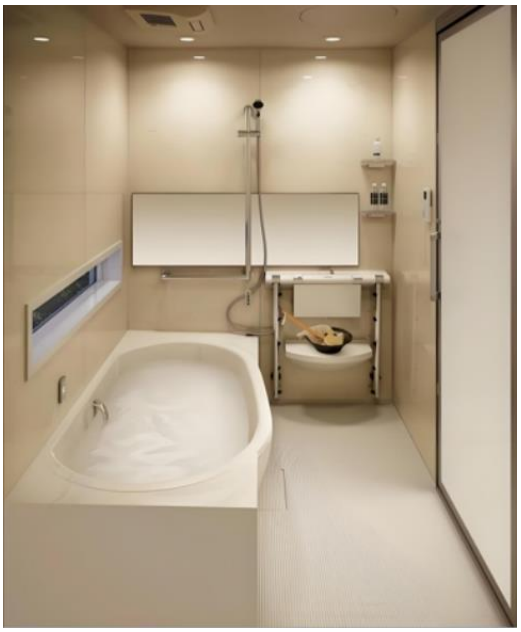
优异的机械性能轻量化
耐老化、耐污染
优异的产品性能稳定性
良好的加工性能

Excellent Mechanical Properties and Lightweight Design
Aging Resistance, Pollution Resistance
Excellent Product Performance Stability
Good Machining Performance

主要产品应用 Major Product Applications

整体卫浴等

Integrated Bathroom, etc.





应用行业

Application Industry

不 饱 和 聚 酯S M C

Unsaturated Polyester SMC

卫浴行业 Bathroom industry

产品特点 Product Features

优异的机械性能轻量化	Excellent Mechanical Properties and Lightweight Design
耐老化、耐污染	Aging Resistance, Pollution Resistance
优异的产品性能稳定性	Excellent Product Performance Stability
良好的加工性能	Good Machining Performance
食品级材质	Food-grade material

主要产品应用 Major Product Applications

建筑给排水 — Building water supply and drainage



单片成品水箱板
Single finished water tank panel



带管道成品水箱
Finished water tank with pipes

应用行业

Application Industry

不 饱 和 聚 酯S M C

Unsaturated Polyester SMC

卫浴行业 Bathroom industry

产品特点 Product Features

优异的机械性能轻量化
耐老化、耐污染
优异的产品性能稳定性
良好的加工性能
食品级材质

Excellent Mechanical Properties and Lightweight Design
Aging Resistance, Pollution Resistance
Excellent Product Performance Stability
Good Machining Performance
Food-grade material

主要产品应用 Major Product Applications

工业设备

Industrial equipment



冷却塔
cooling tower



冷却塔
cooling tower

应用行业

Application Industry

不饱和聚酯SMC
Unsaturated Polyester SMC

电力行业 Power industry

产品特点 Product Features

优异的机械性能轻量化	Excellent Mechanical Properties and Lightweight Design
耐老化、耐污染、绝缘、阻燃	Aging Resistance, Pollution Resistance
优异的产品性能稳定性	Excellent Product Performance Stability
优异的电气性能	Excellent Mechanical Properties
良好的加工性能	Good Machining Performance

主要产品应用 Major Product Applications

电表箱	Electric meter box



综合配电箱
Combined distribution box



综合配电箱
Fiber optic joint box

研发能力

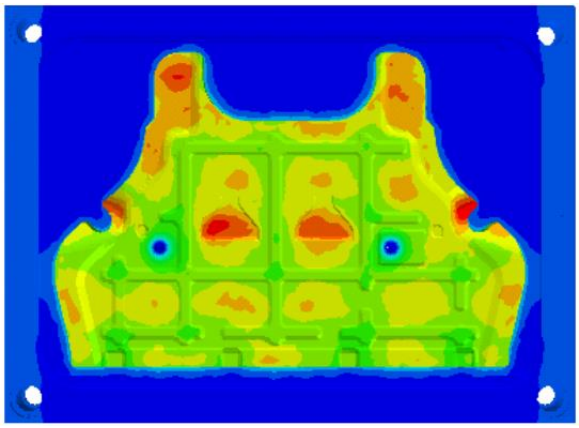
Research and development capacity

分 析

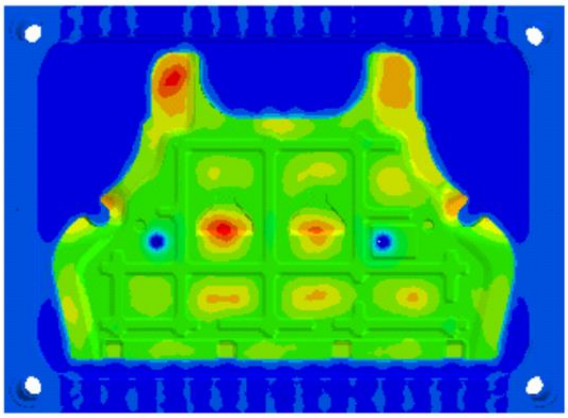
Analysis

公司具备一流的开发设计团队， 可提供从设计到制造一体化解决方案， 实现同步开发， 优化整车设计。

The company has the First class R & D group which can provide one stop service of solutions from design to production fulfilling the developing and optimizing synchronously.



- 模型： 原始模型上模
  Model: original top model
- 冷却时间： 25s
  cooling timE: 25s
- 冷却水温度： 25。
  cooling water temperature: 25 。 C
- 产品表面最高温度： 82 . 14。 C
  product surface maximum
  temperature: 82 . 14 。 C
- 产品表面平均温度： 62。 C
  product surface average
  temperature: 62 。 C



- 模型： 改进模型上模
  Model: Improved top model
- 冷却时间： 25s
  cooling time: 25s
- 冷却水温度： 25。 C
  cooling water temperature: 25 。 C
- 产品表面最高温度： 75 . 48 e C
  product surface maximum
  temperature: 75 . 48 。 C
- 产品表面平均温度： 52 . 5。 C
  product surface average
  temperature: 52 . 5 。 C

研发能力

Research and development capacity

实 验 设 备

Experimental equipment

万能力学试验机
Mechanical testing machine



阻燃试验机
Fire retardant machine



摆锤冲击实验机PIT501J
Pendulum impact testing machine



数显白度仪
Digital display whiteness meter



无转子硫化仪
Moving die rheometer



Brookfield粘度计
Viscometer



树脂凝胶时间测定仪
Resin gel time tester



密度仪
Density meter



电子恒温干燥箱
Electronic constant temperature drying oven



水分测定仪
Moisture meter



谢谢观看

聚氨脂复合预浸料行业领导者

Industry Leader in Polyurethane Prepreg
Solutions for Composite Materials in Automotive Parts