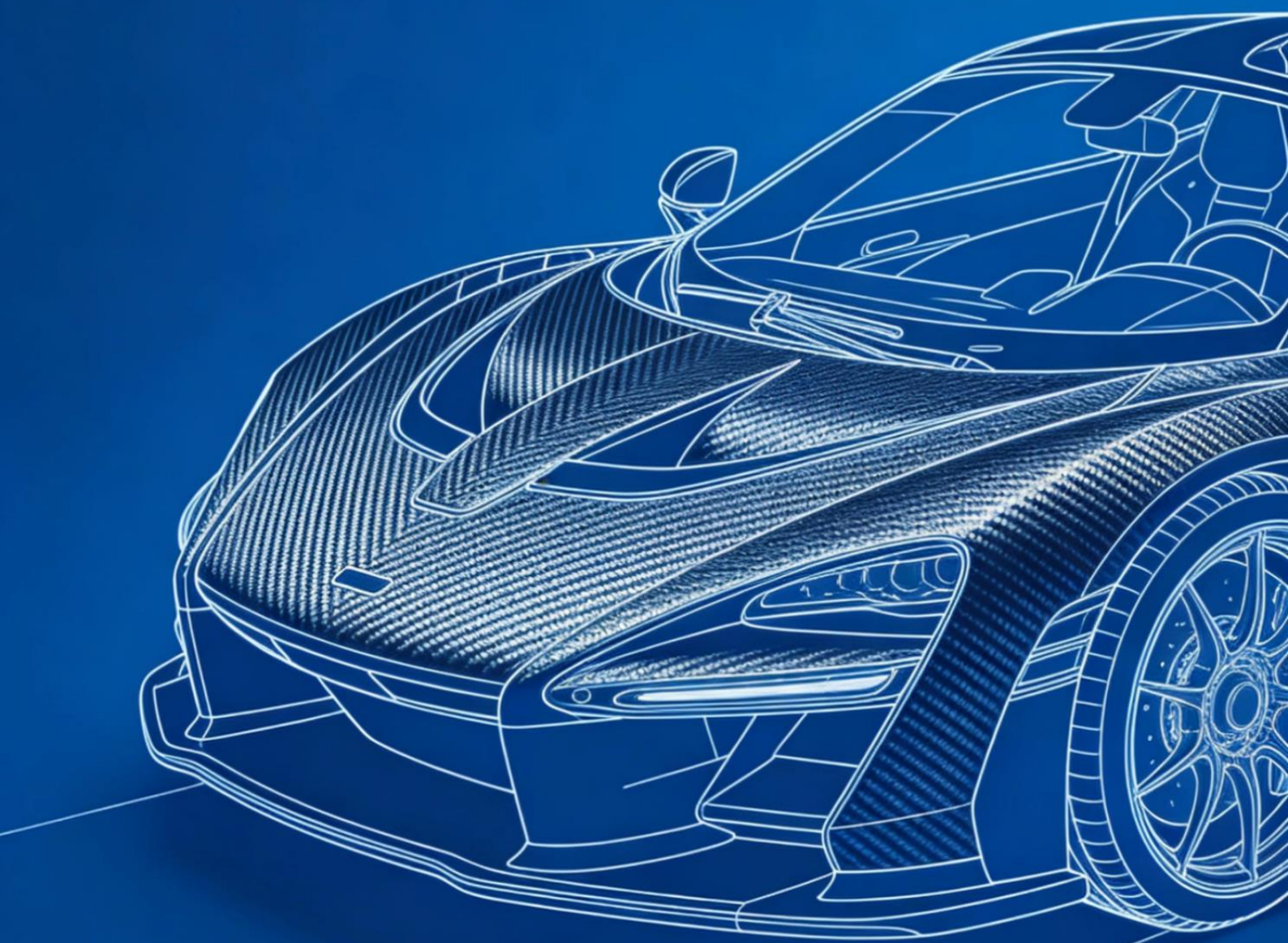
华镁复材
HUAMEI COMPOSITE



Jiangsu Huamei Composite Material Technology Co., Ltd.

Jiangsu Huamei Composite Material Co., Ltd.

华镁复材
HUAMEI COMPOSITE

Company profile

Company Introduction

Jiangsu Huamei Composite Material Technology Co., Ltd. is located in Sihong County, Suqian, Jiangsu, China. With a focus on quality and innovation, we supply independently developed polyurethane composite prepreg and unsaturated polyester SMC. With proprietary intellectual property, we continuously develop new composite materials and processes to offer customers more choices and value.

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.

Certificates

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

Reproduction of the IATF 'globe' logo in any form is strictly prohibited by copyright

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

Reproduction of the IATF 'globe' logo in any form is strictly prohibited by copyright

NQA is a trading name of NQA Certification Limited. Registration No. 09301758. Registered Office: Warwick House, Houghton Hall Park, Houghton Regis, Dunstable Bedfordshire LU5 5ZX, United Kingdom. This certificate is the property of NQA and must be returned on request.

Revision Date: Feb 2017

Page 1 of 1

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

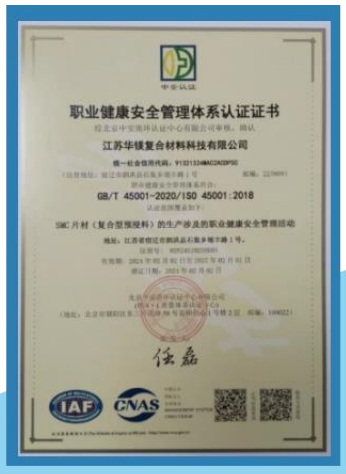
SMC片材（复合型预浸料）的生产


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


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

Jiangsu Huamei Composite Material Technology Co., Ltd.

Product introduction

product Introduction

CSFCM - Polyurethane composite prepreg

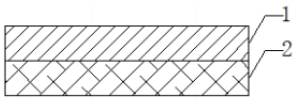
CSFCM—polyurethane composite prepreg

CSFCM (Continuous Short Fiber Compression Molding) combines polyurethane resin, glass-fiber reinforcement and additives. Woven fabric and chopped fibers bring together the advantages of conventional epoxy prepreg and SMC sheets. It addresses strength, flame resistance, airtightness, electrical and restricted-substance requirements while improving the high cost and low efficiency of conventional PCM prepreg.

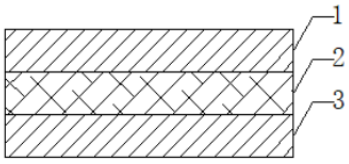
Polyurethane prepreg CSFCM (Continuous Short Fiber Compression Molding) is composed of a polyurethane matrix, a glass fiber reinforcement, additives, and other components. The glass fiber reinforcement consists of woven fabric and chopped fibers, enable the composite prepreg to combine the advantages 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 layup structures

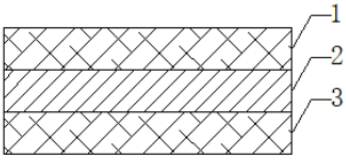
The structural form of csFCM is as follows:



Layup 1



Layup 2



Layup 3

Product introduction

product Introduction

CSFCM polyurethane prepreg & epoxy prepreg

CSFCM Polyurethane prepreg&Epoxy prepreg

1. Epoxy prepreg has low cutting and layup efficiency, material utilization and curing efficiency.

2. Polyurethane composite prepreg allows areal weight and width to be tailored to the product, improving cutting, layup and material utilization. Full curing is possible within 200 seconds.

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.

Material Material	Composition Material composition	Width (mm) width(mm)	Thickness (mm) thickness(mm	Cutting (thickness 1.5mm) cropping (Thickness 1.5 mm)	Layup (thickness 1.5mm) lamination (Thickness 1.5 mm)	Curing time (SEC) curing time (SEC)
Epoxy prepreg Epoxy prepreg	Fabric + epoxy resin Fabric+epoxy resin	1000/1270	0.2/0.32	5 cuts 5 times	5 layers 5 Layers	400
Polyurethane composite Prepreg Polyurethane complex prepreg	Fabric + short fiber + Polyurethane resin Fabric+staple fiber +polyurethane resin	1000-1500	0.6-2.5	2 cuts 2 times	2 layers 2 Layers	200

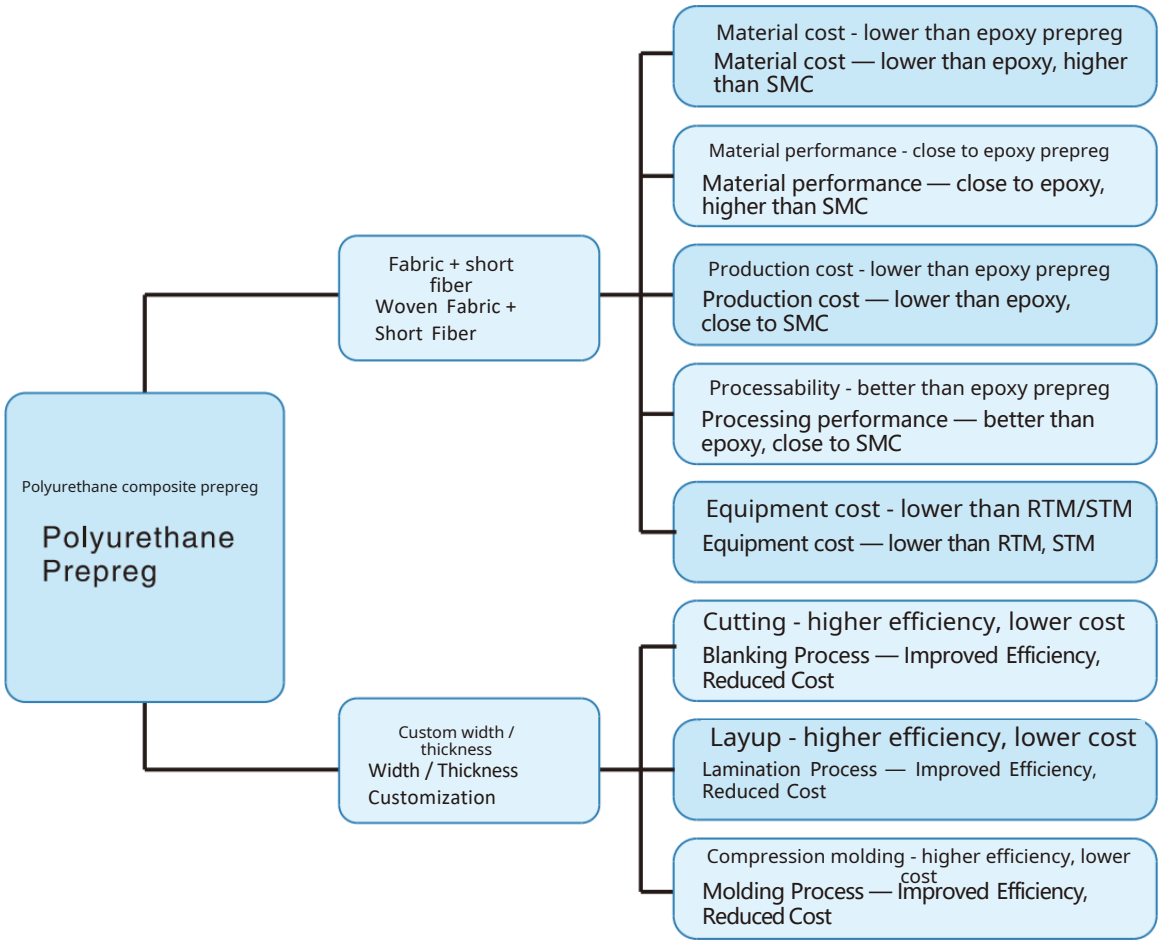
Jiangsu Huamei Composite Material Technology Co., Ltd.

Product introduction

product Introduction

CSFCM - Polyurethane composite prepreg

CSFCM —Polyurethane Prepreg



Product introduction

product Introduction

Performance comparison Performance Comparison										
Test Specimen Test template	Thickness (Mm) Thickness (mm)	Fabric Structure Fabric structure	Layup Layering	Tensile stretch		Flexural Bend		Impact (KJ/m2) Impact (KJ/m2)	In-plane shear shear in plane	
				Strength (Mpa)	Modulus (Gpa)	Strength (Mpa)	Modulus (Gpa)		Strength (Mpa	Modulus (Gpa)
Epoxy Glass-fiber sheet EPoxY fiberglass board	1	18# Glass-fiber sheet 8#Fiberglass board	0/90/0/0/90/0	51 9 . 53	23 . 35	502	1 9 . 5	271	75 . 2	3 . 5
PU Glass-fiber sheet PU Fiberglass board	1	18# Glass-fiber sheet 8#Fiberglass board	0/90/0/0/90/0	538 . 1	27 . 82	606	23 . 2	273 . 5	78.6	3 . 7
PU Carbon-fiber sheet 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 . 1 36
PU Glass-fiber sheet PU Fiberglass board	1	400g Roving fabric 400grams checkered cloth	NA	450 . 48	22 . 55	532	1 9 . 3	290	68 . 03	2 . 81 7
PU Glass-fiber sheet PU Fiberglass board	1	CSFCM	CSFCM9060 x 2 layers CSFCM9060"2layers	364	21 . 3	572	20 . 5	109	161	60.7

Jiangsu Huamei Composite Material Technology Co., Ltd.

Applications

Application Industry

Polyurethane prepreg

Polyurethane Prepreg

Automotive

Product features Product Features	Excellent mechanical properties (toughness: 20-30% higher than conventional epoxy) (2 - 5 M i n) Excellent flame resistance Aging / contamination resistance Stable product performance No VOC volatilization	Excellent mechanical properties (with toughness 20-30% higher than traditional epoxy resins) Rapid curing (2-5 minutes) Excellent flame retardancy Aging resistance and contamination resistance Outstanding product performance stability No VOC emissions
Main applications Major Product Applications	Battery upper cover / automotive parts	Battery cover / Automotive components



Product introduction

product Introduction

CSFCM9060					
No.	Test item	Test standard	Average	Unit	Note
1	Material	GB/T 2577-2005	51~56	%	
2	Density	GB/T 1033.1-2008	1.90	g/cm³	
3	Water absorption	GB/T 1462 Method 1	0.03	%	
4	Flame resistance	UL94 vertical burning test	Vo	/	
5	Heat deflection temperature	GB/T 1634.2-2004	160.80	℃	
6	Thermal conductivity	GB/T 3399-1982	0.04	/	
7	Insulation resistance	GB/T 31838.4-2019	>1000	MQ	
8	Dielectric withstand	GB/T 1408.1-2016	1.72	m	
9	Dielectric constant	GB/T 1409-2006	4.80	/	
10	Tensile strength	GB/T 1447-2005	364.00	MPa	
11	Tensile modulus	GB/T 1447-2005	21.30	GPa	
12	Flexural strength	GB/T 1449-2005	572.00	MPa	
13	Flexural modulus	GB/T 1449-2005	20.50	GPa	
14	In-plane shear strength	GB/T 3355-2014	161.00	MPa	
15	In-plane shear modulus	GB/T 3355-2014	60.70	GPa	
20	Notched impact strength	GB/T 1451	109.00	kJ/m²	
23	High temperature / humidity	ASTM D3039-17: 85±3°C, 82-88% RH, 1,000 hours	All 11 items meet requirements		
24	Thermal shock	GB/T 31838.4-2019: Alternating -40 to 85°C; transition within 30 min; hold 30 min at each extreme. 2 hours/cycle, 500 cycles, 1,000 hours total.	All 11 items meet requirements		
26	Salt spray resistance	GB/T 2423.18 (672 hours)	All 7 items meet requirements		
31	Prohibited substances	GB/T 30512-2014	Complies	/	
32	Poisson's ratio	GB/T 1040.2-2022	0.240	/	

Jiangsu Huamei Composite Material Technology Co., Ltd.

Applications

Application Industry

Polyurethane prepreg

Polyurethane Prepreg

Refrigerated vehicle

Product features
Product Features

Excellent mechanical properties (toughness:
20-30% higher than conventional epoxy)
Rapid curing (2-5 min); excellent flame retardance
Aging / contamination resistance
Stable product performance
No VOC volatilization
Passed RoHS, FDA and REACH tests. Low thermal bridging and conductivity; excellent insulation.

Excellent Mechanical Properties (Toughness 20-30% Higher than Traditional Epoxy)
Rapid Curing (2-5 MIN)
Excellent Flame Retardancy
Aging Resistance, Pollution Resistance
Excellent Product Performance Stability
No VOC volatilization
Low thermal bridging effect, low thermal conductivity, excellent insulation performance

Main applications
Major Product Applications

Refrigerated cargo compartment liner

Refrigerated compartment inner panel



Applications

Application Industry

Polyurethane prepreg

Polyurethane Prepreg

Photovoltaics

Product features
Product Features

Excellent mechanical properties (toughness:
20-30% higher than conventional epoxy)
Rapid curing (2-5 min); excellent flame resistance
Aging / contamination resistance
Stable product performance
No VOC volatilization
Low thermal bridging and conductivity; excellent insulation

Properties (Toughness 20-30% Higher than Traditional Epoxy)
Rapid Curing (2-5 MIN)
Excellent Flame Retardancy
Aging Resistance, Pollution Resistance
Excellent Product Performance Stability
No VOC volatilization
Low thermal bridging effect, low thermal conductivity, excellent insulation performance

Main applications
Major Product Applications

Photovoltaic module backsheet

Photovoltaic backsheet





Jiangsu Huamei Composite Material Technology Co., Ltd.

Product introduction

product Introduction

Polyurethane prepreg (Carbon fiber)

Polyurethane prepreg (carbon fiber)

Polyurethane carbon-fiber prepreg consists of polyurethane resin, carbon-fiber reinforcement and additives. The reinforcement includes woven fabric, unidirectional and chopped fibers. It offers excellent strength, improved toughness and efficient curing while reducing production costs.

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.

No. serial number	Test item Detection items	Test standard Detection standard	Unit unit	Test result Detection results
1	Tensile strength TensilE StrEngth	GB/T 33613-201 7	Mpa	538
2	Tensile modulus Tensile modulus	GB/T 33613-201 7	Gpa	43.3
Flexural strength	Bending strEngth	GB/T1449–2005	Mpa	688
4	Flexural modulus Bending modulus	GB/T 1 449-2005	Gpa	39.6
5	Interlaminar shear Interlayer s hear	iso 14130 : 1 997	Mpa	87.2
6	Tg (DSC)	ISO 1 1 357-2 : 1 999	℃	1 06

Applications

Application Industry

Sports

Polyurethane prepreg (carbon fiber)

Polyurethane prepreg (carbon fiber)

Product features Product Features	Excellent mechanical properties (toughness 20-30% higher than conventional epoxy) Rapid curing (2-5 MIN) Excellent flame resistance Aging / contamination resistance Stable product performance No VOC volatilization	Excellent Mechanical Properties (Toughness 20-30% Higher than Traditional Epoxy) Rapid curing (2-5 MIN) Excellent Flame Retardancy Aging Resistance, Pollution Resistance Excellent Product Performance Stability No VOC volatilization
Main applications Major Product Applications	Carbon-fiber helmet / shoe sole	Carbon fiber helmet / Carbon fiber sole



Carbon-fiber shoe sole

Carbon fiber sole



Carbon-fiber helmet

Carbon fiber helmet

Applications

Application Industry

Sports

Polyurethane prepreg (carbon fiber)

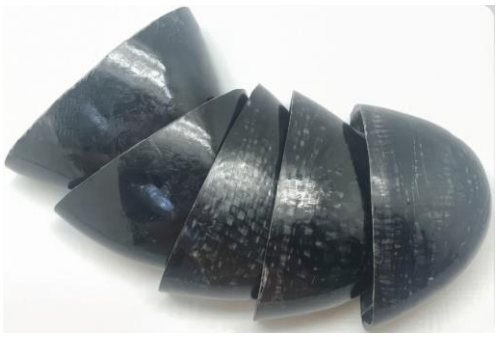
Polyurethane prepreg (carbon fiber)

Product features Product Features	Excellent mechanical properties (toughness 20-30% higher than conventional epoxy) Rapid curing (2-5 MIN) Excellent flame resistance Aging / contamination resistance Stable product performance No VOC volatilization	Excellent Mechanical Properties (Toughness 20-30% Higher than Traditional Epoxy) Rapid curing (2-5 MIN) Excellent Flame Retardancy Aging Resistance, Pollution Resistance Excellent Product Performance Stability No VOC volatilization
Main applications Major Product Applications	Sports / protective equipment	Sports and protective equipment



Composite toe cap

Composite toe



Carbon-fiber toe cap

Carbon fiber toe

Applications

Application Industry

Drones

Polyurethane prepreg (carbon fiber)

Polyurethane prepreg (carbon fiber)

Product features Product Features	Excellent mechanical properties (toughness 20-30% higher than conventional epoxy) Rapid curing (2-5 MIN) Excellent flame resistance Aging / contamination resistance Stable product performance No VOC volatilization	Excellent Mechanical Properties (Toughness 20-30% Higher than Traditional Epoxy) Rapid curing (2-5 MIN) Excellent Flame Retardancy Aging Resistance, Pollution Resistance Excellent Product Performance Stability No VOC volatilization
Main applications Major Product Applications	Carbon-fiber drone / UAV	carbon fiber UAV/drone



Carbon-fiber drone / UAV

carbon fiber UAV



Carbon-fiber drone / UAV

carbon fiber drone

Applications

Application Industry

Industrial

Polyurethane prepreg (carbon fiber)

Polyurethane prepreg (carbon fiber)

Product features Product Features	Excellent mechanical properties (toughness 20-30% higher than conventional epoxy) Rapid curing (2-5 MIN) Excellent flame resistance Aging / contamination resistance Stable product performance No VOC volatilization	Excellent Mechanical Properties (Toughness 20-30% Higher than Traditional Epoxy) Rapid curing (2-5 MIN) Excellent Flame Retardancy Aging Resistance, Pollution Resistance Excellent Product Performance Stability No VOC volatilization
Main applications Major Product Applications	Carbon-fiber enclosure	Carbon fiber enclosure



Carbon-fiber storage / transport case

Carbon Fiber Storage & Transport Protective Case



Carbon-fiber medical case

Carbon Fiber Medical Protective Case

Jiangsu Huamei Composite Material Technology Co., Ltd.

Product introduction

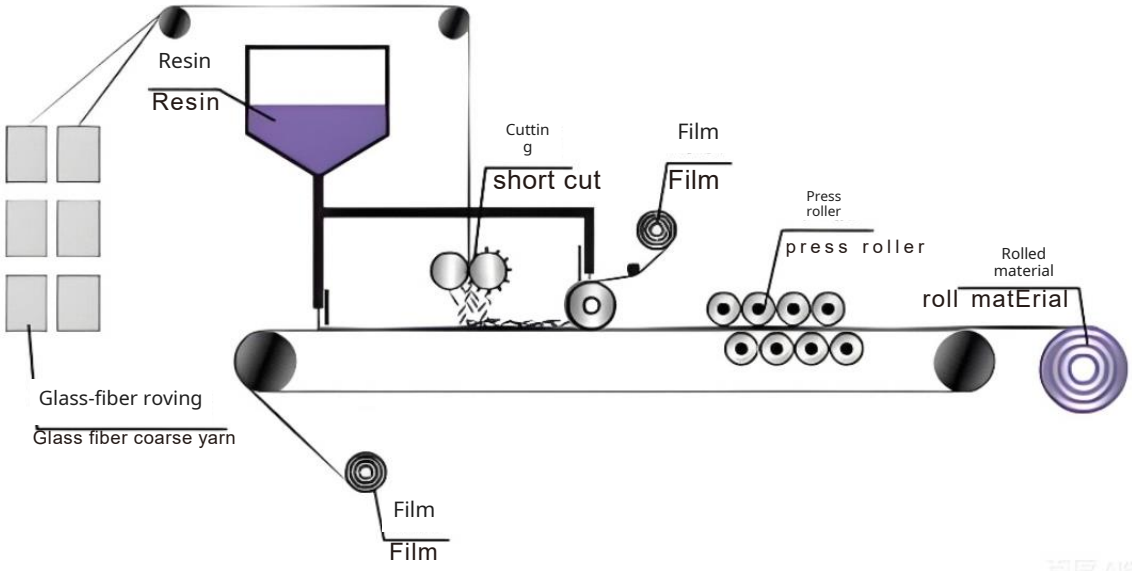
product Introduction

Unsaturated polyester SMC (Sheet Molding Compound)

unsaturated polyester SMC (sheet Molding compound)

SMC (Sheet Molding Compound) is a sheet molding material made from chopped glass fiber, resin, calcium carbonate and other ingredients. It is used in automobiles, high-speed rail, construction, bathrooms and electrical appliances.

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.



Applications

Application Industry

Unsaturated polyester SMC

Unsaturated Polyester SMC

Commercial vehicles

Product features
Product Features

Excellent mechanics / lightweight
Excellent Mechanical Properties and Lightweight Design

Aging / contamination resistance
Aging Resistance, Pollution Resistance

Stable product performance
Excellent Product Performance Stability

Good machinability
Good Machining Performance

Main applications
Major Product Applications

High roof / air deflector / steering / Bumper / Pedal, etc.
High Roof / Fairing / Bumper / Pedal, etc.



Steps, side skirts, bumpers, side trim, door-sill trim,

Engine hood / full-body air deflector

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

Jiangsu Huamei Composite Material Technology Co., Ltd.

Applications

Application Industry

Unsaturated polyester SMC

Unsaturated Polyester SMC

Bathrooms

Product features
Product Features

Excellent mechanics / lightweight
Excellent Mechanical Properties and Lightweight Design

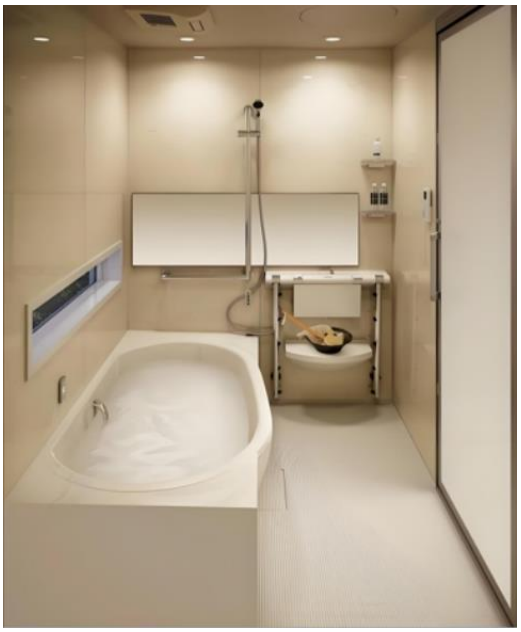
Aging / contamination resistance
Aging Resistance, Pollution Resistance

Stable product performance
Excellent Product Performance Stability

Good machinability
Good Machining Performance

Main applications
Major Product Applications

Integrated bathroom, etc.
Integrated Bathroom, etc.





Jiangsu Huamei Composite Material Technology Co., Ltd.

Applications

Application Industry

Unsaturated polyester SMC

Unsaturated Polyester SMC

Water supply / drainage

Product features
Product Features

Excellent mechanics / lightweight
Excellent Mechanical Properties and Lightweight Design

Aging / contamination resistance
Aging Resistance, Pollution Resistance

Stable product performance
Excellent Product Performance Stability

Good machinability
Good Machining Performance

Food-grade material
Food-grade material

Main applications
Major Product Applications

Building water supply and drainage
Building water supply and drainage



Finished water-tank panel

Single finished water tank panel



Water tank with piping

Finished water tank with pipes

Jiangsu Huamei Composite Material Technology Co., Ltd.

Applications

Application Industry

Unsaturated polyester SMC

Unsaturated Polyester SMC

Industrial equipment

Product features
Product Features

Excellent mechanics / lightweight
Excellent Mechanical Properties and Lightweight Design

Aging / contamination resistance
Aging Resistance, Pollution Resistance

Stable product performance
Excellent Product Performance Stability

Good machinability
Good Machining Performance

Food-grade material
Food-grade material

Main applications
Major Product Applications

Industrial equipment
Industry

Industrial equipment



Cooling tower

cooling tower



Cooling tower

cooling tower

Applications

Application Industry

Unsaturated polyester SMC

Unsaturated Polyester SMC

Electrical

Product features
Product Features

Excellent mechanics / lightweight
Excellent Mechanical Properties and Lightweight Design

Aging / contamination resistance, insulation,
Aging Resistance, Pollution Resistance

Flame resistance

Stable product performance
Excellent Product Performance Stability

Excellent electrical properties

Good machinability
Good Machining Performance

Main applications

Meter box
Electric meter box



Combined distribution box
Combined distribution box



Combined distribution box
Fiber optic joint box

Jiangsu Huamei Composite Material Technology Co., Ltd.

Research & development

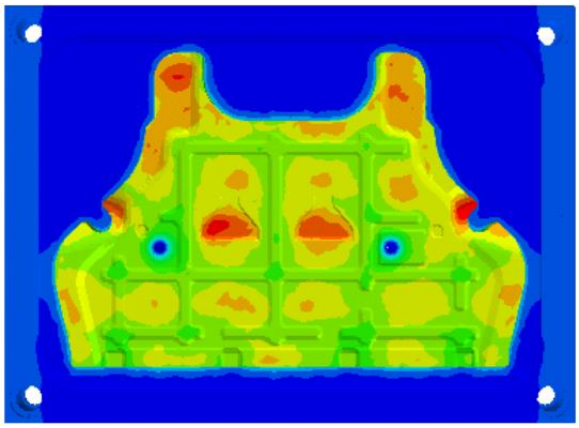
Research and development capacity

Analysis

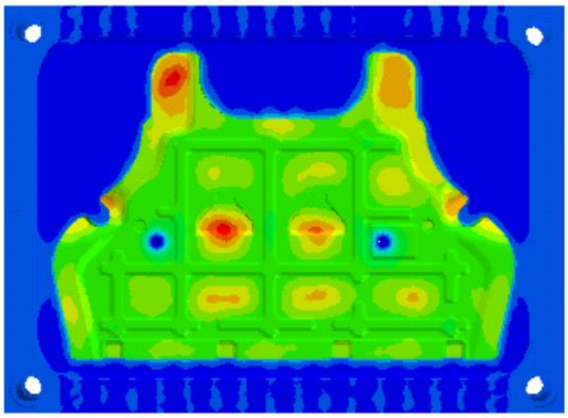
Analysis

Huamei's development and design team provides integrated solutions from design to manufacturing, optimizing vehicle design through concurrent development.

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.



- Original upper mold
- Model: original top model
- Cooling time: 25s
- cooling time: 25s
- Coolant temperature: 25。C
- cooling water temperature: 25 。 C
- Maximum surface temperature: 82.14。C
- product surface maximum temperature: 82 . 14 。 C
- Average surface temperature: 62。C
- product surface average temperature: 62 。 C



- Improved upper mold
- Model: Improved top model
- Cooling time: 25s
- cooling time: 25s
- Coolant temperature: 25。C
- cooling water temperature: 25 。 C
- Maximum surface temperature: 75.48。C
- product surface maximum temperature: 75 . 48 。 C
- Average surface temperature: 52.5。C
- product surface average temperature: 52 . 5 。 C

Research & development

Research and development capacity

Test equipment

Experimental equipment

Universal testing machine
Mechanical testing machine



Flammability tester
Fire retardant machine



Pendulum impact tester
Pendulum impact testing machine



Digital whiteness meter
Digital display whiteness meter



Rotorless cure meter
Moving die rheometer



Brookfield viscometer
Viscometer



Resin gel-time tester
Resin gel time tester



Density meter
Density meter



Constant-temperature drying oven
Electronic constant temperature drying oven



Moisture meter
Moisture meter



Thank you

A leader in polyurethane composite prepreg technology

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