

# 模压成型用玻璃纤维产品

*FIBERGLASS PRODUCTS FOR*  
**COMPRESSION MOLDING**





## **SMC成型工艺**

SMC用玻璃纤维合股无捻粗纱

## **BMC成型工艺**

BMC用无碱玻璃纤维短切原丝

## **LFI工艺**

LFI用玻璃纤维合股无捻粗纱

## **SMC Process**

*Assembled Rovings for SMC*

## **BMC Process**

*Chopped Strands for BMC*

## **LFI Process**

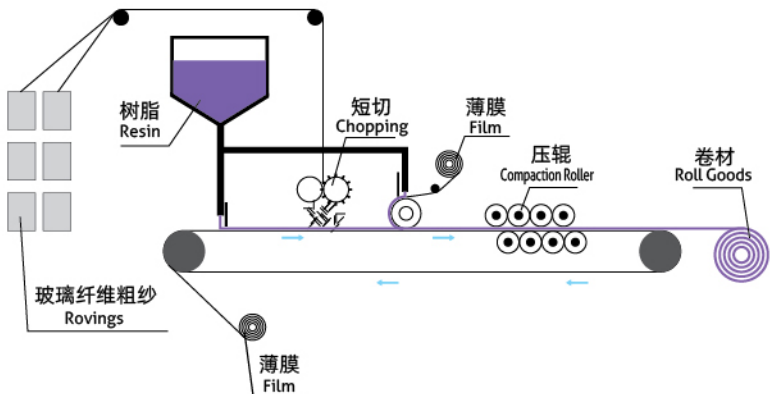
*Assembled Rovings for LFI*

# SMC成型工艺

由树脂、填料等材料充分混合形成的树脂糊加到下薄膜上，然后将玻纤短切均匀分散到树脂糊薄膜上，再往上面覆盖一层带有树脂糊的薄膜，经SMC机组压辊压实形成片状模塑料制品。

# SMC Process

Mix the resins, fillers and other materials well to form a resin paste, apply the paste on a first film, disperse chopped glass fibers evenly on the resin paste film and cover this paste film with another layer of resin paste film, and then compact the two paste films with pressure rollers of a SMC machine unit to form sheet molding compound products.



## SMC用玻璃纤维合股无捻粗纱

SMC用玻璃纤维合股无捻粗纱适用于增强不饱和聚酯、乙烯基树脂等，产品切割性能好，分散性好，毛羽少，浸透好，抗静电性能佳。

## Assembled Rovings for SMC

Assembled Rovings for SMC are compatible with UP and VE. They deliver properties of good choppability and dispersion, low fuzz, good wet-out and good antistatic performance.

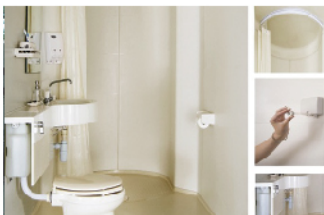
产品牌号 Product Code	典型线密度(tex) Nominal Linear Density(tex)	产品特点 Product Features	典型应用 Typical Applications
410J	2400	高耐水蒸性能SMC卫浴制品 SMC sanitary products with high boiling resistance	整体卫浴 Unit bathroom
440		通用型SMC制品 General purpose SMC products	汽车部件、电器部件、建筑装饰等 Automobile parts, electrical parts, building decoration, etc
440A	4400	汽车顶棚 Car ceiling	汽车顶棚 Car ceiling
442K	4500	高表面质量易着色SMC制品 SMC products with high surface quality and easy coloring	防水板、水箱、电器柜等 Waterproof board, water tank, electrical cabinet, etc
448	4800	高强度高玻纤含量结构级SMC制品 SMC structural parts with high strength and high glass fiber content	汽车结构件 Automobile structural parts
456		A级表面SMC制品 SMC products with Grade-A surface	汽车外饰件 Automobile exterior parts
458		高表面质量易着色SMC制品 SMC products with high surface quality and easy coloring	卫浴制品 Bathroom wares

## SMC成型工艺的终端应用市场

(建筑 / 化工 / 消费品与商业设备 / 汽车、卡车 / 电气和通讯 / 基础设施 / 运动休闲)

## End-Use Markets

( Building and Construction / Chemical / Consumer Goods and Business Equipment / Automotive / Electrical and Electronics / Infrastructure / Sports and Leisure )



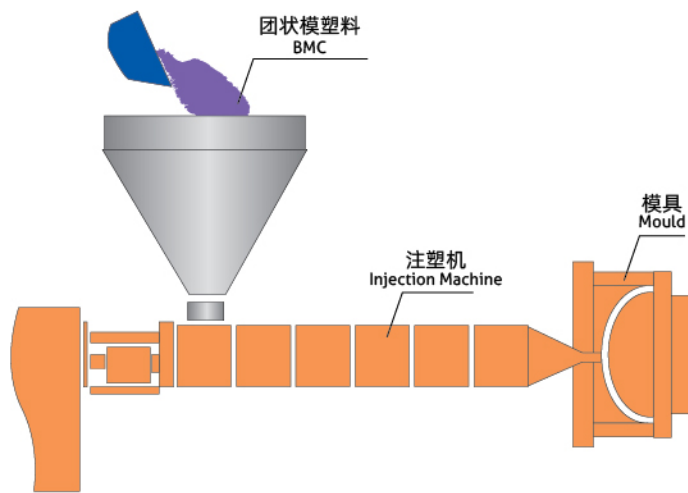


# BMC成型工艺

由玻璃纤维短切原丝、树脂、填料以及各种添加剂经充分混合形成模塑料，可进行注塑成型或模压成型。

## BMC Process

A bulk molding compound is made by combining glass chopped strands, resin, filler, catalyst and other additives. This compound is processed by compression molding or injection molding to form the finished composite parts.



### BMC用无碱玻璃纤维短切原丝

BMC用无碱玻璃纤维短切原丝适用于增强不饱和树脂、环氧树脂和酚醛树脂。BMC模压制品广泛应用于交通、建筑、电气、化工、轻工等多个行业。

### Chopped Strands for BMC

Chopped Strands for BMC are compatible with UP, EP and PF resins. The end-use applications include transportation, building & construction, electronic & electrical, mechanical, and light industries.

产品牌号 Product Code	短切长度(mm) Nominal Chopped Length(mm)	适用树脂 Resin Compatibility	产品特点 Product Features	典型应用 Typical Applications
552B	3, 6, 9, 12, 18, 24	不饱和聚酯，乙烯基和环氧树脂 UP, EP, VE	高冲击强度性能，高含油产品 High impact strength, high LOI rate	汽车部件、低压电气开关、电动工具、人造大理石台板及有强度要求的制品 Automotive parts, civilian electrical switches, electric tools, artificial marble platform boards and other products requiring high strength
558		酚醛树脂、橡胶 PF, Rubber	干法混合工艺，耐开纤，高硬度，与橡胶有很好的相容性 Suitable for the dry mixing processing, high strand integrity High strand stiffness, compatible with rubber	刹车片等摩擦材料，高摩擦系数轮胎产品 Friction materials, Products with superior friction coefficient, including tires
562A		饱和聚酯，乙烯基和环氧树脂 UP, EP, VE	吸树脂量超低，BMC团料粘度低 Extremely low resin demand, delivering low viscosity to BMC paste	适用于高玻纤含量，结构复杂和颜色要求高的制品，如天花板、人造大理石台板、灯罩等 High fiberglass content products with complex structure and superior color, e.g., ceiling, artificial marble platform boards and lampshades

### BMC成型工艺的终端应用市场

(运动休闲 / 消费品与商业设备 / 汽车、卡车 / 电气和电信 / 建材)

### End-Use Markets

( Sports and Leisure / Consumer Goods and Business Equipment / Automotive / Electrical and Electronics / Building )

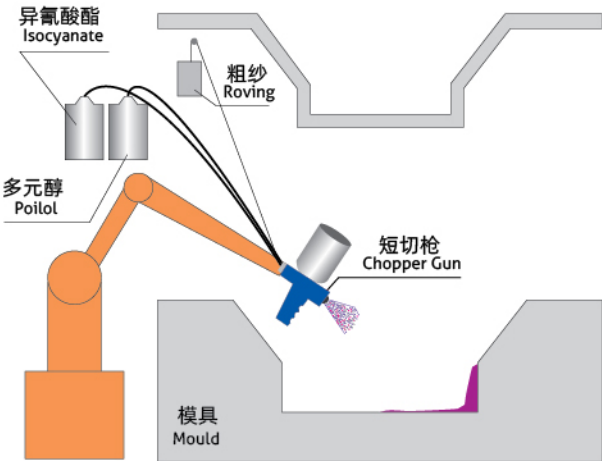


# LFI工艺

使用喷射机将玻璃纤维切断到一定长度，并与异氰酸酯和多元醇一起喷到模具表面，然后上模具与下模具合上反应固化，形成最终制品。

## LFI Process

The roving is chopped into certain length using a spraying machine. The isocyanate, polyol, and chopped strand mixture is sprayed onto an open mould. The mould is then closed, heated and pressure applied, and the part is cured.



### LFI用玻璃纤维合股无捻粗纱

LFI用玻璃纤维合股无捻粗纱主要适用于增强聚氨酯树脂。具有良好的分散性和低静电，树脂浸透性好。

### Assembled Rovings for LFI

Assembled Rovings for LFI are compatible with PU and VE. They deliver properties of low static, excellent dispersion and good wet-out in resin.

产品牌号 Product Code	典型线密度 (tex) Nominal Linear Density (tex)	产品特点 Product Features	适用树脂 Resin Compatibility	典型应用 Typical Applications
440	2400, 4800	短切分散性好，模压流动性好制品机械强度高 Excellent choppability and dispersion, good mold flowability, high mechanical strength of composite products	聚氨酯树脂 PU	门皮、汽车部件 Door skins, automotive parts

## LFI工艺的终端应用市场 (建材 / 船艇 / 汽车部件)

## End-Use Markets ( Building / Marine / Automotive )



开模成型用玻璃纤维产品 Fiberglass Products for Open Molding	喷射成型工艺 Spray-up Process
	手糊成型工艺 Hand Lay-up Process
管道成型用玻璃纤维产品 Fiberglass Products for Pipes	缠绕成型工艺 Filament Winding Process
	离心浇铸成型工艺 Centrifugal Casting Process
模压成型用玻璃纤维产品 Fiberglass Products for Compression Molding	SMC成型工艺 SMC Process
	BMC成型工艺 BMC Process
	LFI工艺 LFI Process
连续型材用玻璃纤维产品 Fiberglass Products for Continuous Profiles	拉挤成型工艺 Pultrusion Process
	连续板材成型工艺 Continuous Panel Molding Process
热塑性塑料用玻璃纤维产品 Fiberglass Products for Thermoplastics	挤出与注塑工艺 Extrusion and Injection Processes
	LFT成型工艺 LFT Process
	GMT成型工艺 GMT Process
	CFRT成型工艺 CFRT Process
其它玻璃纤维产品 Fiberglass Products for Other Processes	膨化工艺 Texturizing Process
	增强石膏工艺 Reinforcements for Gypsum
	汽车顶棚成型工艺 Automotive Headliner Molding Process
布毡用玻璃纤维产品 Fiberglass Products for Fabrics and Mats	编织工艺 Weaving Process
	制毡工艺 Mat Production Process
玻璃纤维制品 Fiberglass Mats and Woven Rovings	制毡工艺 Mat Production Process
	编织工艺 Weaving Process
高性能复合纤维 High Performance Hybrid Fibers	模压成型 Mold Pressing
	层压板材成型 Laminate Molding
	缠绕成型 Filament Winding
	拉挤成型 Pultrusion
	真空辅助成型 Vacuum-Assisted Molding
细纱产品 Glass Yarns	电子布编织工艺 Electronic Fabric Weaving Process
	工业布编织工艺 Industrial Fabric Weaving Process
电子布产品 Electronic Fabrics	覆铜板上胶工艺 Copper Clad Laminate Coating Process
	绝缘板上胶工艺 Insulation Board Coating Process



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