Address: Zone B, Jianqiao Industrial Park, Dadukou District, Chongqing, China

Tel.: 023-68157576

Postal code: 400082

Fax: 023-68157822

E-mail: info@cpicfiber.com

Website: www.cpicfiber.com

WeChat QR code

Company Website QR Code

2022 Revision First Edition

重庆国际复合材料股份有限公司

CHONGQING POLYCOMP INTERNATIONAL CORPORATION

THERMOPLASTIC PRODUCTS

INTEGRATED SOLUTION

GLASS FIBER SOLUTION EXPERT

INNOVATIVE COMPOSITE MATERIAL TOWARDS THE GREEN FUTURE

COMPANY PROFILE

Chongqing Polycomp International Corporation (hereinafter referred to as "CPIC" or "the Company"), established in 1991, is an important pillar of Yuntianhua Group Co., Ltd. in the new glass fiber material industry. As a high-tech enterprise with the core business of R&D, production and sales of glass fibers and composite materials, CPIC focuses on new high-performance materials and is committed to developing high-performance products with stable quality and continuous innovation, so as to provide customers with valuable services and application solutions.

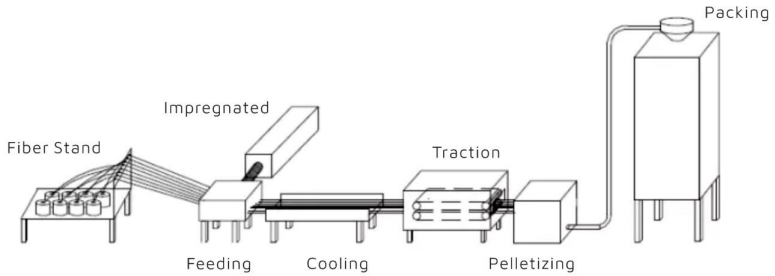
As a reinforcing material for composite materials, glass fiber has the characteristics of lightweight, high strength, durability, and environmental friendliness. It is widely used in wind power blades, photovoltaic bracket frames, automobiles and rail transit, electronic appliances, electrical insulation, building materials, doors and windows, industrial pipes and tanks, aerospace and other important fields. In more than 30 years of continuous development, CPIC now has 12 production bases and 18 glass fiber furnace production lines around the world, with an annual production capacity of more than 1 million tons of glass fiber, ranking third nationally and fourth globally in terms of production capacity. The core business areas such as emission reduction and 5G communication are in a leading position globally. The company's marketing network spreads all over the world, and it has established trading subsidiaries in the United States, the Netherlands and Hong Kong SAR of China. Its products are sold in dozens of countries and regions around the world, and it has established long-term and stable strategic cooperative relations with international well-known enterprises such as General Electric, DuPont, BASF, Siemens Gamesa, Vestas, Huawei, Zhuzhou Times New Material Technology, Sinoma Science & Technology and Kingfa Science & Technology.

Through years of exploration and efforts, CPIC now has a number of inventions and practical patents including ECT, TM, and TM+. The main products have passed Germanischer Lloyd (GL), Lloyd's Register of Shipping (LR), and U.S. Food and Drug Administration (FDA) certification. Since its establishment, CPIC has successively won many honors, such as China Grand Award for Industry, National Intellectual Property Advantage Enterprise, China Patent Excellence Award, China Famous Brand Product, National Key New Product, Chongqing Outstanding Innovative Enterprise, Chongqing Science and Technology Progress First Prize and many other honors.

In the light of the development idea of Yuntianhua Group, which takes "fertilizers and modern agriculture, glass fiber and composite materials, fine chemicals and new materials" as its main business and "building a green industry group with global influence" as its vision, CPIC takes the initiative to adapt to the new normal of economic development, continuously deepens the development strategy of "intensive industrial cultivation, sophisticated manufacturing, market precision, and refined management", optimizes the international production capacity layout and proactively extends the industrial chain, strives to develop new glass fiber products with high technology and environmental friendliness, comprehensively enhances its core competitiveness, and makes continuous efforts toward the goal of becoming the enterprise with the most valuable glass fiber and composite material in the world.

Process

Description



LFT Molding Process: After the LFT glass fiber is untwisted and spread up, the fiber is coated and wet by the melted resin through the mold cavity containing the thermoplastic resin melt, and then pulled out through the mold opening with a certain aperture, and chopped into particles with fixed length after water cooling.

Process Application Fields: Automobiles, household appliances, construction.

Product

Profile

Long Glass Fiber for LFT

Product code

ECT 4305N - 2400

- Glass type
- Sizing Code
- Linear Density Tex

Product Introduction

LFT glass fiber is an E-glass fiber roving, and the surface is specially modified, so that it has excellent compatibility with resin, which can be used for PP, PA and other thermoplastic resins, meets the process needs of LFT-G, LFT-D, CFRT, GMT and others, has excellent processbility and good mechanical properties.

Product Catalog

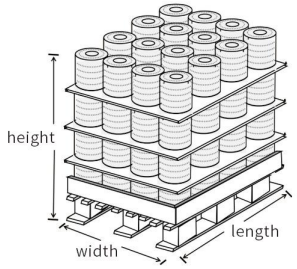
Product Code	Process	Applicable Resin	Linear Density Tex	Product Characteristics
4301H	LFT-G	PA	1200/2400	Excellent mechanical properties and resistance to refrigerant fluid
4301R			300/600/1200/2400	Moderate fiber stiffness, good weaving processability and dispersion, excellent compatibility with PA resin
4305PM		PP	1200/2400/3000	Standard product with good processability, low fuzz, and excellent mechanical properties
4305N			300/600/1200/2400	Moderate strand stiffness, low fuzz, fits for high speed drawing, it has excellent mechanical properties
4305	LFT-D		2400	Fits for direct loading into screw
4305D			2400	Fits for cutting before adding screw
4305S	CFRT...		1100/1200/2400	Fits for panel manufacturing with good dispersion and low fuzz
4305G	GMT		2400	The odor grade can reach 3.0 – 3.5, which is suitable for the fields with special requirements for odor, such as automobile interior decoration.

Package

Specification

Package Specification: Each roll of yarn is packaged with stretch film, and each layer is palletized according to 12 or 16 rolls. The number of pallet layers is 3 or 4. Each roll of yarn is provided with a roll label for traceability, and its information includes product name, Tex, production date, batch number, etc.

Packaging method (see Table I for pallet size)



Pallet size (Table I) (Note: The following roll weights are for reference only, and the sales contract shall prevail)

Net weight of each roll (kg)	Nominal size of bobbin (mm)			Rolls/ layer	Layers/ pallet	Rolls/ pallet	Pallet size (mm)	Weight (kg) /pallet
	outer diameter	inner diameter	height					
17-19	280	161	260	16	3	48	1140x1140x940	816-912
				16	4	64	1140x1140x1200	1088-1216
22-24	310	161	260	12	3	36	1260x970x940	792-864
				12	4	48	1260x970x1200	1056-1152

Storage: If there is no special requirement, the product shall be stacked in a dry and cool place. If it is not used, please do not unpack the package to avoid moisture.

Application

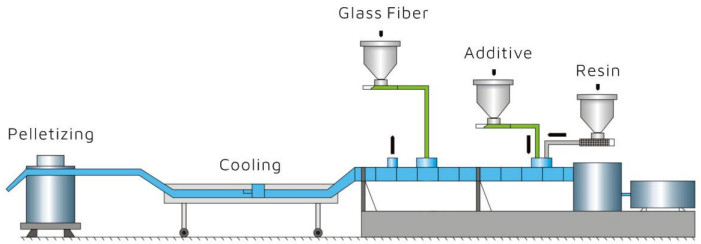
Area

Automotive parts

Washing machines

Process

Description



Twin-screw Extrusion and Pelleting Process: The thermoplastic resin particles, additives, chopped glass fibers, or thermoplastic long fibers are fed into the twin-screw extruder by feeding mechanism, and the resin, additives, and glass fibers are evenly mixed and extruded by rotating and shearing of the screw, and then cut into particles with fixed length after water cooling and shaping.

Process Application Fields: Automobiles, electronics, electrical appliances, and machinery

Product

Profile

Thermoplastic Chopped Glass Fiber

Product code

ECS 303 - 3 - H

- Chopped Strand
- Sizing Code
- Chopped Length
- Fiber Diameter

Product Introduction

Thermoplastic chopped glass fiber is made by cutting alkali-free glass fiber strands into fixed lengths. CPIC chopped glass fiber used for reinforcing thermoplastic resin has special surface treatment for different resin systems. It has excellent compatibility with resins and is suitable for reinforcing PA, PBT, PP, PC, PPS, PPO, ABS, POM, LCP, and other thermoplastic resins. It can customize products with different lengths, diameters, and special performance requirements for customers based on different high-performance glass substrates.

Product Catalog

applicable resin	variety code	chopped length (mm)	product characteristics
PA	301G	4.5	Standard product
	3014B	4.5	Standard product
	301HP	3.0	Excellent mechanical strength, excellent resistance to refrigerant liquid, and can also be used for high-temperature PA and PA alloys
	301T	3.0	High filling, excellent mechanical strength, and fluidity
	301F	3.0	High filling, high comprehensive cost performance
	301HF	3.0	Excellent mechanical strength, fluidity, and low warpage
	311HP	3.0	Excellent mechanical strength and modulus
	331HP	3.0	With excellent dielectric and mechanical properties
PBT	303G	4.5	Standard product
	303	3.0	Standard product with good performance
	303W	3.0	Good yellowing resistance at high temperature
	303HR	3.0	Excellent mechanical strength and good resistance to hot water
	303T	3.0	High filling, excellent mechanical strength, and fluidity
	313	3.0	Excellent mechanical strength and modulus
	333	3.0	With excellent dielectric and mechanical properties
ABS	304A	3.0	Standard product
PP	305G	4.5	Standard product
	305	3.0/4.5	Standard product with good performance and detergent resistance
PPO	306	3.0	Standard product
	306HR	3.0	Excellent hot water resistance
PC	307	3.0	Standard product, used for glass fiber consumption >15%
	307NB	3.0	Excellent impact strength, used for glass fiber consumption <15%
	307AT	3.0	Excellent mechanical strength, fluidity, and low warpage
POM	308	4.5	Standard product
PPS	309A	3.0	Standard product
	309C	3.0	Excellent mechanical strength, good resistance to hot water and refrigerant
	309HF	3.0	Excellent mechanical strength, fluidity, and low warpage
LCP	3010A	3.0	Standard product
	3098C	3.0	Very low flue gas generation
-	EMG11	0.1/0.2	Milled fiber, imparts composites material with excellent fluidity and good warpage resistance

Product

Profile

Thermoplastic Long Fiber

Product code

ECT 4300A -2000

- Glass type
- Sizing Code
- Linear Density Tex

Product Introduction

Thermoplastic long fiber is a kind of roving made of E-glass fiber strands. The thermoplastic long fiber produced by CPIC has special surface treatment, and excellent compatibility with resin, excellent processability, and mechanical properties. It is suitable for reinforcing PA, PBT, PP, ABS, AS, and other thermoplastics.

Product Catalog

Applicable Resin	Product Code	Linear Density	Product Characteristics
PA PP PBT ABS、AS	4300A	2000	Standard Product
	4500A	2000/2400	Multi-compatible extruded long fiber with good color and performance
PA PBT ABS	5301HP	2000	Multi-compatible extruded long fiber, PA alcohol resistance, PBT water resistance
PP	4505	2000/2400	Extruded long fiber dedicated for PP
PP	4505A	2000	Suitable for direct injection molding process and extrusion process, good choppability, good shear resistance

Package

Specification

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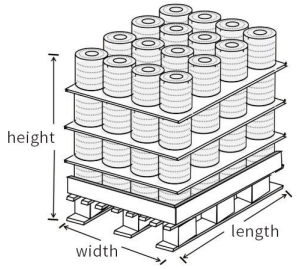

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Storage: If there is no special requirement, the product shall be stacked in a dry and cool place. If it is not used, please do not unpack the package to avoid moisture.

Application

Area

Automobile

Electronics

Machinery

OPEN MOLDING FIBERGLASS INTEGRATED SOLUTION

CLOSED MOLDING FIBERGLASS INTEGRATED SOLUTION

PULTRUSION FIBERGLASS INTEGRATED SOLUTION

PIPE & TANK FIBERGLASS INTEGRATED SOLUTION

PANEL FIBERGLASS INTEGRATED SOLUTION

MAT & FABRIC FIBERGLASS INTEGRATED SOLUTION

WIND ENERGY PRODUCTS FIBERGLASS INTEGRATED SOLUTION

THERMOPLASTIC PRODUCTS INTEGRATED SOLUTION

OTHER PROCESS FIBERGLASS INTEGRATED SOLUTION