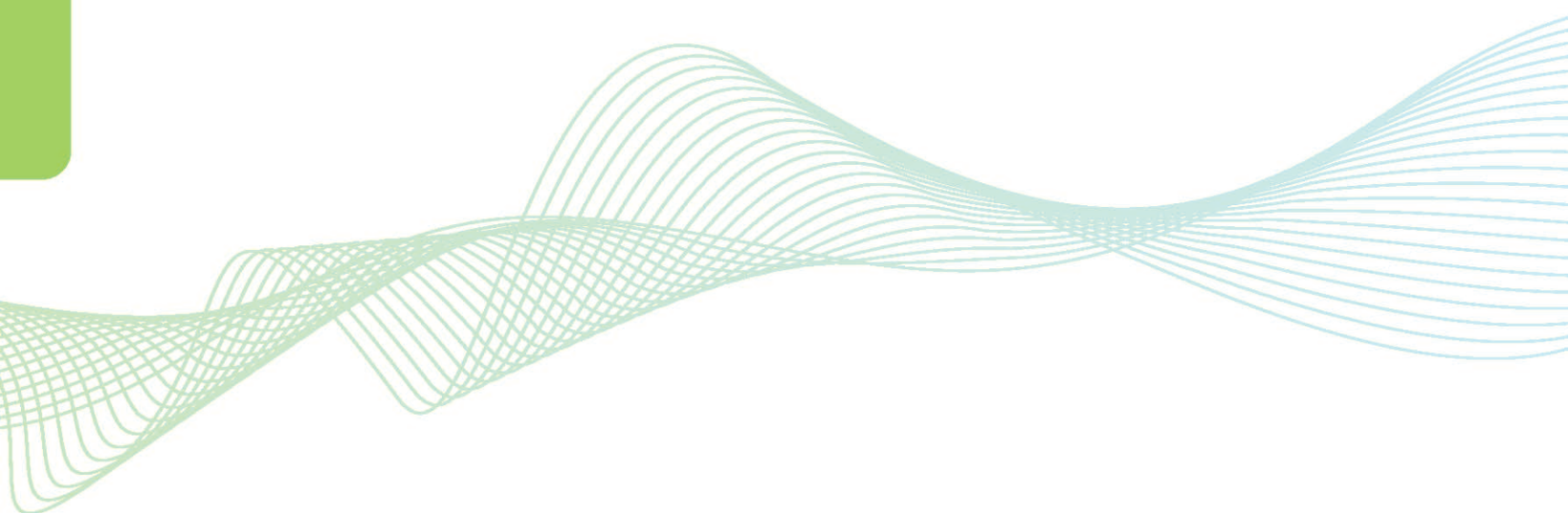
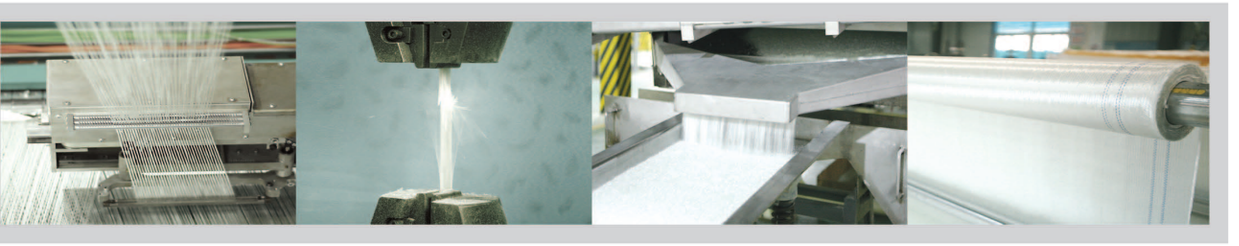
泰 山 玻 璃 纤 维
Taishan Fiberglass

ELECTRONIC & INDUSTRIAL FIBERGLASS YARNS



泰山玻璃纤维有限公司
Taishan Fiberglass Inc.



Electronic & Industrial Fiberglass Yarns

Single Yarn
Plied Yarn

Electronic & Industrial Fiberglass Yarns
Application: Weaving, Plastic–coating, Knitting

Electronic & Industrial Fiberglass Yarns

【 Description 】

CTG fiberglass yarn is categorized into:
Single yarn & Plied yarn, in terms of manufacturing process;
Starched–based, Silane–based & Starch–Silane based, in terms of sizing;
Electronic Yarn and Industrial Yarn, in terms of application;
It is widely used to produce electronic glass fabrics, tire cord, sleeves, grinding wheel fabrics, sun cloth, window gauze, filtering materials, etc.

Y–Yarns: starch–based sizing, easy for heat cleaning, typically used to produce glass fabrics and general purpose industrial products.
R–Yarns: silane based sizing, high tensile strength of filaments & high alkali resistance, compatible with EP, UP, VE and PF resins.
S–Yarns: starch–silane based sizing, excellent weaving properties and flexible for various industrial applications.



【 Properties 】

◎Consistent linear density
◎Good process–ability and low fuzz
◎Easy for heat–cleaning
◎High tensile strength

【 Yarns Nomenclature: International Units 】

Eg 1: E C 9 68 1×2 S 112 Y1

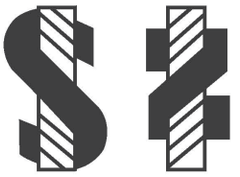
E:	E–glass
C:	Continuous Fiber
9:	Filament Diameter 9 microns
68:	Linear Density 68tex
1×2:	1 Ply of 2–strand Construction
S:	Twist Direction
112:	Twist per Meter
Y1:	Sizing Type

【 Yarns Nomenclature: British Units 】

Eg 2: E C G 75 1/2 2.8 S Y1

E:	E–glass
C:	Continuous Fiber
G:	Average Filament Diameter
75:	7500 yards/lb.
1/2:	Ply of 2–strand Construction
2.8:	Twist per Inch
S:	Twist Direction
Y1:	Sizing Type

【 Twist Direction 】



(a) S Twist　(b) Z Twist

【 Nomenclature for Yarn Filament Diameter 】

Filament Diameter		Range of Average Filament Diameter	
British Units	International Units/ microns	Microns	Inches × 10^{-3}
BC	4	3.60–4.40	0.14–0.17
C	4.5	4.41–5.07	0.171–0.190
D	5	5.08–6.32	0.2–0.249
DE	6	5.72–6.96	0.225–0.274

Filament Diameter		Range of Average Filament Diameter	
British Units	International Units/ microns	Microns	Inches x 10^{-3}
E	7	6.35–7.61	0.25–0.299
F	8	7.62–8.86	0.3–0.349
G	9	8.89–10.15	0.35–0.399
H	11	10.16–11.42	0.4–0.449
J	12	11.43–12.69	0.45–0.499
K	13	12.7–13.96	0.5–0.549

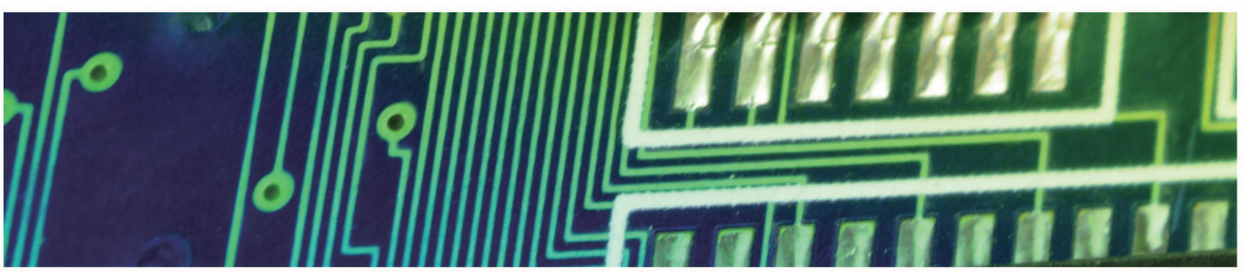
Single Yarn

Type t.p.m	Inch–unit t.p.i	Sizing Type	Linear Density tex	Bobbin Type	Length m/bobbin	Net Weight kg/bobbin
EC 5 11 Z40	EC D450 1/0 1.0Z	Y5	11.2	2K	166000	1.86
EC 6 33 Z28	EC DE150 1/0 0.7Z	Y5,S508	33	4K	120000	3.96
EC 6 68 Z28	EC DE75 1/0 0.7Z	Y5,S508	68.7	4K/8k	53500/124000	3.68/8.52
EC 6 75 Z28	EC DE67 1/0 0.7Z	Y5,S508,R126	75	4K/8k	48500	3.64
EC 6 136 Z28	EC DE37 1/0 0.7Z	Y5,S508	136	4K/8k	27000/62000	3.67/8.43
EC 7 22.5 Z40	EC E225 1/0 1.0Z	Y3,Y5	22.5	4K	125000	2.81
EC 7 45 Z40	EC E110 1/0 1.0Z	Y3,Y5	45	4K	82000	3.69
EC 9 33 Z28	EC G150 1/0 0.7Z	Y1,Y5,R110,S508	33	4K	124000	4.09
EC 9 68 Z28	EC G75 1/0 0.7Z	Y1,Y4,Y102,R, R110, R117, S508	68.7	4K/8K	53500/124000	3.68/8.52
EC 9 75 Z28	EC G67 1/0 0.7Z	Y1,Y4	75	4K/8K	48500	3.64
EC 9 110 Z28	EC G45 1/0 0.7Z	Y1,R	110	4K/8K	34000/74000	3.74/8.14
EC 9 136 Z28	EC G37 1/0 0.7Z	Y1,R,R117	136	4K/8K	27000/62000	3.67/8.43
EC 9 204 Z20	EC G25 1/0 0.5Z	Y1,R,R117	204	4K	18000	3.67
EC 11 136 Z20	EC H37 1/0 0.5Z	Y1,R,R117	136	4K/8K	27000/62000	3.67/8.43
EC 11 204 Z20	EC H25 1/0 0.5Z	Y1,R,R117	204	4K	18000	3.67
EC 13 272 Z20	EC K18 1/0 0.6Z	Y1,R,R117	272	8K	31000	8.4

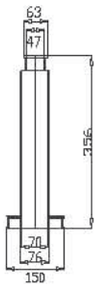
Plied Yarn

Type t.p.m	Inch–unit t.p.i	Sizing Type	Linear Density tex	Bobbin Type	Length m/bobbin	Net Weight kg/bobbin
EC5 5×1×2 S168	EC D450 1/2 4.2S	Y5	22.4	4K	166000	3.72
EC6 33×1×2 S112	EC DE150 1/2 2.8S	Y5,S508	66	4K	60000	3.96
EC6 68×1×2 S112	EC DE75 1/2 2.8S	Y5,S508	137.4	4K	26700	3.67
EC6 75×1×2 S112	EC DE67 1/2 2.8S	R126	150	4K	24200	3.63
EC7 22×1×2 S112	EC E225 1/2 2.8S	Y5	45	4K	62000	2.79
EC9 33×1×2 S112	EC G150 1/2 2.8Z	Y1	66	4K	60000	3.96
EC9 68×1×2 S112	EC G75 1/2 2.8Z	Y1,S508	137.4	4K/8K	26700/62000	3.67/8.52
EC9 136×1×2 S112	EC G37 1/2 2.8Z	Y1	272	4K	13500	3.67
EC9 136×1×3 S112	EC G37 1/3 2.8Z	Y1	408	4K	9000	3.67
EC9 136×1×4 S112	EC G37 1/4 2.8Z	Y1	544	4K	6750	3.67
EC9 136×1×5 S112	EC G37 1/5 2.8Z	Y1	680	4K	5400	3.67
EC9 136×1×6 S112	EC G37 1/6 2.8Z	Y1	816	4K	4500	3.67

Number of single yarns plied: 2～6; Twists of plied yarn : 90 ～ 150/m.

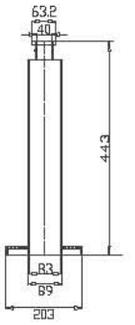


Packaging



4k

4K Bobbin



8k

8K Bobbin

【 Bobbin Specification 】

Type	Inside Dia. mm	Outside Dia. mm	Chassis Dia. mm	Height mm
4K	70	76	150	356
8K	83	89	203	443

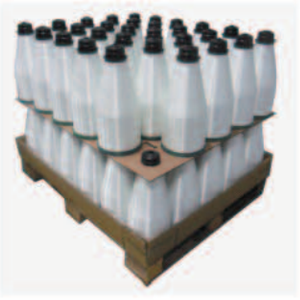
Pallet Size



Three Layers

147bobbins/pallet

Pallet size:1120mm × 1120mm × 1250mm



Two Layers

60bobbins/pallet

Pallet size :1235mm × 1030mm × 1050mm

【 Pallet Specification 】

Bobbin Type	Length mm	Width mm	Height mm	Num. of Bobbins
4K	1120	1120	1250	147
8K	1235	1030	1050	60

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Taishan Fiberglass

About Us

Taishan Fiberglass Inc., is a subsidiary company of China National Building Material Group Corporation Ltd., and a National Key High-tech Enterprise.

Our products cover E-Glass, TCR (ECR) Glass, Alkali Resistant Glass Cem-FIL®, HMG Glass and and S-1 HM™ series. The leading products such as Roving, Chopped Strand Mat, Yarn, Electronic Fabrics, Chopped Strands, Multiaxial Fabrics, Knitted Fabrics, Woven Roving, etc., are exported to over 70 countries and regions, including the US, Europe, ME, etc.

We are committed in scientific and standardized management and have acquired certificates of International Quality Management System (ISO 9001), Environmental Management System (ISO 14001), Occupational Health and Safety Management System (GB/T 28001) and products are awarded Det Norske Veritas Type Approval Certificate (DNV), Lloyd's Register of Shipping (LR), Germanischer Lloyd (GL) and China Classification Society (CCS), etc.

Taishan Fiberglass Inc., will adhere to sustainable development and provide customers with superior products and services, to keep contributing to the progresses of China fiberglass industry and in pursuit of becoming a globally prestigious fiberglass manufacturer.



Fiberglass Solutions to Pipes & Tanks	Filament Winding; Centrifugal Casting
	Direct Roving for Filament Winding, Chop Roving, Chopped Strand Mat, Woven Roving, Axial Tape, Knitted Mat, Surface Mat, Hobas Roving
Fiberglass Solutions to Open Molding	Spray–up; Hand Lay–up
	Spray–up Roving, CSM, Woven Roving Combo Mat, Knitted Mat, Surface Mat
Fiberglass Solutions to Pultrusion	Pultrusion
	Direct Roving for Pultrusion, Knitted Mat, Surface Mat
Fiberglass Solutions to Continuous Panel Molding	Continuous Panel Molding
	Continuous Panel Roving, Chopped Strand Mat
Fiberglass Solutions to Compression Molding	SMC/BMC Compression Molding
	SMC Roving, Chopped Strands for BMC
Fiberglass Roving for Mats & Fabrics	Weaving Mat Production
	Direct Roving for Multi–axial Fabrics, Direct Roving for Geo–grids, Direct Roving for Fabrics, Roving for Mat
Fiberglass Solutions to Thermoplastics	Extrusion & Injection; LFT (Long Fiber Thermoplastic): LFT–G and LFT–D GMT (Glass Mat reinforced Thermoplastics)
	Continuous Roving for Thermoplastics, Chopped Strands LFT Roving, GMT Roving
Fiberglass Solutions to Wind Energy	Prepreg (Pre–forming); Vacuum Infusion (Vacuum Bagging); Hand Lay–up
	Multi–axial Fabrics for Wind Energy, PP Core Mat
Electronic & Industrial Fiberglass Yarns	
Electronic Fiberglass Fabrics	
HMG High Modulus High Strength Fiberglass	

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