

Product Introduction

K-C Knitted Fabrics are assembled by knitting together a layer(s) of directional glass fiber either with or without a lightweight support of chopped strand mat or veil. The layers are stitched together to facilitate handling and provide dimensional stability during lamination. The perfect alignment and positioning of the rovings thereby provide high tensile strength, while the resulting thick, highly porous layer of reinforcement allows easy resin impregnation. K-C Knitted Fabrics are produced with an “E” glass as defined by GB/T18369-2001 and designed to be compatible with most resins.

Product Description

K-C Knitted Fabrics have better handling properties than either mat or woven roving and, due to their porosity,

offer short lamination times. To suit a variety of end-use specifications, fabric weight can vary from 300 to 2000 g/m² of fabric (special applications), while the supporting layer of mat or veil can range from 100 to 450 g/m².

Packaging

K-C Knitted Fabrics are wound into a roll on a cardboard inner tube with an inside diameter of 8 cm(3"). All densities are 23cm (9") in diameter. The rolls are wrapped in polyethylene film and packed in cartons (1 roll per carton), which are then packed on pallets (12 or 16 cartons per pallet).

Storage

Unless otherwise specified, it is recommended to store glass fiber products in a cool, dry area. Temperature should not exceed 35° C (95° F) and the relative humidity should



be kept below 75%. Glass roving products must remain in packaging material until just prior to their use. If these conditions are respected, the glass fiber product should not undergo significant changes when stored for extended periods of time.

Stacking

To ensure safety and avoid damage to the product, skids should not be stacked.

Features

Multi-directional reinforcement layers

High integrity of stitch-bonding

Easy resin impregnation

High glass loading

Preferential fiber loading

No crimp in combining fabrics

Uniform fiber distribution

Hybrid fabric configuration

Customer Benefits

Control of fiber orientation in reinforcement allows for design optimization

Ease of handling

Short lamination times

Superior structural properties in composites

Design flexibility

Improved strain-to failure and improved fatigue resistance

Enhanced surface finish

Optimized weight performance

Product data

ID Number	0°	90°	+45°/ -45° (OZ/Yd ²)	Yarn	Mat	Total	Thickness (mm)	Resin Compatibility
K1-120-C	11.84	0.97		0.24		13.05	0.48	Polyester
K1-170-C	17.0	0.97		0.24		18.21	0.50	Polyester
K1-180-C	17.69	0.97		0.24		18.90	0.55	Polyester
K1-240-C	26.0	0.97		0.24		27.21	0.60	Polyester
K1-360-C	33.98	1.24		0.41		35.63	1.10	Polyester
K2-120-C	0.07	11.80		0.16		12.03	0.45	Polyester
K3-120-C	5.81	5.89		0.24		11.94	0.50	Polyester
K3-12A-C	5.81	5.89		0.24	5.0	16.94	0.80	Polyester
K3-12B-C	5.81	5.89		0.24	6.63	18.57	0.90	Polyester
K3-17B-C	8.71	8.50		0.24	6.63	24.08	1.10	Polyester
K3-180-C	8.71	8.84		0.24		17.79	0.60	Polyester
K3-18B-C	8.83	8.85		0.24	6.63	24.55	1.10	Polyester
K3-18C-C	8.83	8.85		0.24	8.85	26.77	1.15	Polyester
K3-240-C	11.85	11.80		0.24		23.89	0.75	Polyester
K3-24B-C	11.85	11.80		0.24	6.63	30.52	1.50	Polyester
K3-24D-C	11.85	11.80		0.24	13.27	37.16	1.60	Polyester
K3-32B-C	16.20	16.20		0.24	6.63	39.27	1.80	Polyester
K4-120-C			5.91/5.91	0.12		11.94	0.50	Polyester
K4-12A-C			5.91/5.91	0.12	5.0	16.94	0.70	Polyester
K4-12B-C			5.91/5.91	0.12	6.63	18.57	0.88	Polyester
K4-180-C			8.54/8.54	0.12		17.20	0.60	Polyester

ID Number	0°	90°	+45°/ -45° (OZ/Yd ²)	Yarn	Mat	Total	Thickness (mm)	Resin Compatibility
K4-18B-C			8.54 /8.54	0.12	6.63	23.71	1.05	Polyester
K4-240-C			11.82/11.82	0.12		23.76	0.67	Polyester
K4-24B-C			11.82/11.82	0.12	6.63	30.39	1.50	Polyester
K4-24D-C			11.82/11.82	0.12	13.27	37.03	1.60	Polyester
K5-220-C	8.71		6.40/6.40	0.24		21.75	1.50	Polyester
K5-340-C	16.73		8.88/8.88	0.24		34.73	1.60	Polyester

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