

Product Introduction

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 Knitted Fabrics are produced with boron-free glass which is designed to be compatible with most resins. The input boron-free rovings provide higher mechanical properties (modulus of elasticity) than E glass, superior chemical corrosion resistance, especially very similar acid resistance with traditional ECR glass. Without any content of B_2O_3 and F_2 , Boron-free glass is environmental-friendly throughout its production process.

Product Description

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

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	Customer Benefits
Multi-directional reinforcement layers	Control of fiber orientation in reinforcement allows for design optimization
High integrity of stitch-bonding	Ease of handling
Easy resin impregnation	Short lamination times
High glass loading	Superior structural properties in composites
Preferential fiber loading	Design flexibility
No crimp in combining fabrics	Improved strain-to failure and improved fatigue resistance
Uniform fiber distribution	Enhanced surface finish
Hybrid fabric configuration	Optimized weight performance

Disclaimer of Liability

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