

COMFIL[®] 30053-51 WC1-PP-1100

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Description

Hybrid carbon fabrics are made from weaving continuous carbon fibers commingled with continuous matrix filaments. Hybrid carbon fabrics can easily be consolidated into composites by heating the material above the matrix filaments melting point and applying pressure.

Application

Hybrid carbon fabrics are ready to process using heat and pressure and are typically used for the following composite processes: vacuum consolidation, continuous heat pressing and panel lamination.

Hybrid carbon fabric is mechanically recyclable and free of additives and glues

Packaging and storage

Hybrid carbon fabrics are delivered as dried rolls and should be used directly from packaging. The fabric will quickly take up moisture from ambient air, so should be dried at 40° C for prolonged time if exposed. Other dimensions available upon request.

Storage area should be shielded from direct sunlight and kept at ambient temperature below 40° C



Specifications

Reinforcement fiber	Carbon 12K
Matrix material	PP
Grammage	1100 g/m ²
Weight reinforcement, %	64
Volume reinforcement, %	47

Typical Properties

Fabric pattern	Twill 2/2
Structure, threads / cm (warp/weft)	4/4
Consolidation Range, C°	190-230
Density, g/cm ³	1,32
Thickness of consolidated layer, mm	0,75

Packaging

Width of weave, mm	1300
Length of roll, m	50
Tube, Ø mm interior	80