

Comfil[®] 10069

57C-PC-1400

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Description

Comfil hybrid yarns are made from continuous fibers commingled with continuous matrix filaments. Hybrid yarns can easily be consolidated into composites by heating the material above the matrix filaments melting point.

Application

Comfil hybrid yarns are typically used for the following composite processes: weaving, twisting, braiding, winding, pultrusion, pulextrusion and stitching. Comfil hybrid yarns are delivered free of external sizing, and with a round yarn

Packaging and storage

Hybrid yarns are typically delivered on 73 mm Ø interior cardboard tubes with a 5 kg netto weight. Other dimensions available upon request.

Storage area should be shielded from direct sunlight and

Specifications

Reinforcement fiber	Carbon 12K
Matrix material	PC
Linear density of hybrid yarn, tex)	1400
Weight reinforcement, %	57
Volume reinforcement, %	48

Typical Properties

Matrix Tg, C°	150
Matrix Melting Range, C°	220
Consolidation Range, C°	260-295
Hybrid yarn density, g/cm ³	1,46
Service temperature, C°	100-120

