

Attribute	Specification / Typical Value	Notes / Standards
Product Name	Marine Vinyl Carbon Fiber Fabric	Also known as Carbon Fiber Patterned Marine Upholstery Vinyl
Material Composition	PVC (Polyvinyl Chloride) Topcoat + 100% Polyester Knit Backing	Often supported by expanded vinyl backing
Surface Texture	Embossed Carbon Fiber Pattern	Simulated 3D twill or plain weave texture
Finish Type	Glossy or Matte (optional)	Gloss level adjustable per application
Thickness	0.9 mm - 1.2 mm (approx. 35 - 47 mils)	Suitable for marine seating and trim
Roll Width	137 cm - 140 cm (54" - 55")	Industry-standard for upholstery rolls
Roll Length	25 m - 50 m (27 yd - 55 yd)	Custom roll lengths available
Weight	600 - 750 g/m²	Heavier weight indicates durability
Tensile Strength	≥ 200 N/5cm (Warp/Weft)	ISO 1421 / ASTM D5034
Tear Strength	≥ 20 N	ASTM D2261 / ISO 4674
Adhesion Strength	≥ 2.5 N/10mm	Layer adhesion - EN ISO 2411
UV Resistance	≥ 500 - 1000 Hours (QUV-B, ASTM G154)	Marine-grade; fade resistant
Cold Crack Resistance	-23° C to -29° C (-10° F to -20° F)	ASTM D2136
Mildew & Mold Resistance	Pass (ASTM G21, MIL-STD 810)	Anti-fungal treated
Abrasion Resistance	≥ 100,000 Double Rubs	ASTM D4157 Wyzenbeek Method
Flame Retardancy	FMVSS 302 / CA TB117 / EN1021-1/2	Meets automotive and furniture standards
Waterproofing	100% Waterproof	Impervious to saltwater and freshwater
Color Options	Black, Dark Gray, Graphite, Silver, Red, Blue, Custom	UV-stable color pigments
Backing Options	Polyester knit, Brushed Tricot, Fleece Backing	Affects stretch, cushion, and adhesion
Chemical Resistance	Resistant to Saltwater, Bleach, Alcohol, Mild Solvents	Easy to clean and maintain
Application Temperature	-20° C to 60° C (-4° F to 140° F)	For indoor/outdoor use
Eco Compliance	RoHS, REACH, Phthalate-Free (optional)	Low-VOC options available
Certifications Common	SGS / TÜV / Intertek upon request	Available for B2B clients
	Boat Seats, Jet Ski Upholstery,	Also used in commercial seating

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Applications	Yacht Interiors, RV Panels, Auto Trim	and outdoor furniture
Cleaning Instructions	Wipe with mild soap & water; avoid abrasive cleaners	Do not use strong alcohol or acetone-based chemicals
Packing Method	Rolled on cardboard tube, PE-wrapped, packed in cartons or pallets	Export-ready packaging
Shelf Life (uninstalled)	3 years under dry, room-temperature storage	Avoid sunlight or high humidity