RACING SAILS

ELECTRA TRI-RADIAL

Electra is Quantum's next-generation tri-radial material engineered for racers who demand greater speed, superior shape, and lasting durability. Designed with iQ Technology® and backed by decades of Grand Prix performance data, Electra translates top-tier racing intelligence into a dual-fiber tri-radial sail that performs like a membrane—purpose-built for buoy, inshore, and distance racers under 45 feet. Light. Tough. Fast. Ready for any start line.

- **TYPE OF SAILING:** Buoy Racing, Inshore Racing, Distance Racing
- **BOAT SIZE:** Under 45 feet
- **FIBER OPTIONS:** Aramid, Carbon
- **COLOR:** Dark Gray Matte

GRAND PRIX INTELLIGENCE, OPTIMIZED FOR YOU

Electra tri-radial sails are engineered with Quantum's advanced iQ Technology® design process. iQ draws from decades of Grand Prix performance data to model, test, and refine panel layouts, fiber orientation, and aerodynamic shape. The result is a sail tuned precisely to your boat and racing conditions—bringing top-tier racing intelligence directly to your program.

DUAL-FIBER MATRIX FOR POWER + CONTROL

Electra's dual-fiber matrix delivers the power, stability, and shape retention racers depend on. The primary load-bearing warp layer uses lightweight, high-strength aramid or ultra-high-performance carbon fibers running in a straight load path. A secondary x-ply layer of ultra-high molecular weight polyethylene or UPE yarns—a Dyneema/Spectra-like ultralight, low-stretch fiber known for its durability and UV resistance—runs at +/- 60° to provide critical off-axis support. Together, these layers create a balanced structure that stays efficient under load, giving you consistent power and control across conditions.

Choose the strength and responsiveness your program demands—Aramid for balanced performance or Carbon for maximum shape retention—and iQ Technology optimizes the rest.

ENGINEERED FOR STRENGTH, STABILITY, AND LONGEVITY

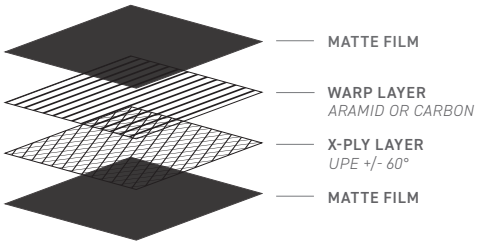
The dual-fiber matrix is protected by ultra-light, 1 mil matte films designed to increase durability, reduce stretch, and shield internal fibers from UV, salt, and abrasion. The result is a sail that maintains its designed shape longer. The dark matte finish delivers a modern, membrane-like aesthetic while preserving the handling, versatility, and reliability of a tri-radial platform.

QUANTUM SAILS®

ELECTRA TRI-RADIAL

SAIL OPTIONS

- **DUAL-FIBER MATRIX:** iQ Technology optimizes panel orientation to maximize the performance characteristics of both the warp and x-ply layers and their respective fibers.
- **MATTE FILMS:** Ultralight, 1 mil matte films lock in performance and shield the structural fiber matrix—delivering a lighter, longer-lasting tri-radial sail with superior shape retention.



ELECTRA ARAMID					ELECTRA CARBON						
			WARP	X-PLY				WARP			X-PLY
FABRIC	WEIGHT (SM-OZ)	FILM	ARAMID DPI	BLACK UPE DPI +/- 60°	FABRIC	WEIGHT (SM-OZ)	FILM	CARBON DPI	BLACK UPE DPI	TOTAL WARP DPI	BLACK UPE DPI +/- 60°
Electra Aramid 04	3.4	2 mil	4,500	2,100	Electra Carbon 11	4.9	2 mil	10,800	3,200	14,000	2,800
Electra Aramid 06	4.0	2 mil	7,000	2,800	Electra Carbon 15	6	2 mil	14,400	4,800	19,200	4,300
Electra Aramid 09	4.7	2 mil	9,500	4,200	Electra Carbon 19	7.1	2 mil	18,000	7,200	25,200	5,500
Electra Aramid 14	5.8	2 mil	14,000	6,200	Electra Carbon 22	8.3	2 mil	21,600	9,600	31,200	6,900
Electra Aramid 18	6.5	2 mil	18,000	6,900							

DPI (Denier Per Inch): A measure of how much structural fiber is packed into the sail.
More DPI = more strength, better stability, and longer-lasting shape—key factors in maintaining performance over time.