



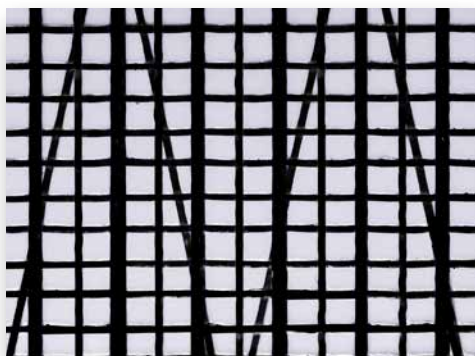
ZZ BLACK POLYESTER LAMINATES

ZigZag reinforced Polyester radial laminate for the racing sailor

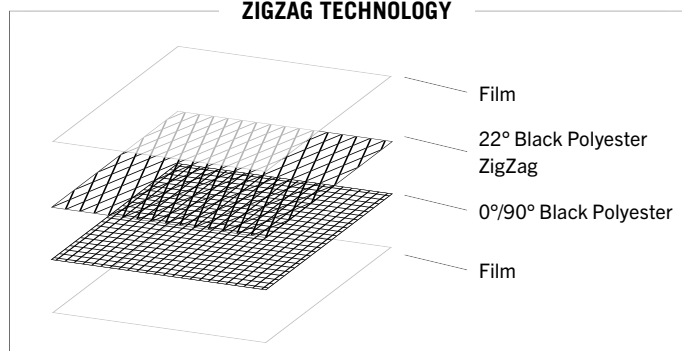
➔ *Designed for radial cut sails from 24 to 36 feet*

Following on the success of the ZZ Black Aramid laminates, the ZZ Polyester (ZP) styles incorporate the same formed scrim and insertion technology to create a range of fabrics based on high tenacity polyester fibers. Polyester has excellent resistance to flex and its UV durability is further enhanced by a carbon black coating on the formed scrim. Designed for radial applications, the ZP styles step up in incremental warp fiber content from 6,000 to 19,500 denier per inch, while the ZP 13 and 19 also see an increase in fill strength as well. Primary thread line strength is supplemented with a ZigZag of 1,000 denier black polyester fibers at 22° on either side of the warp for improved cloth stability and tear strength.

ZZ Polyester laminates are a durable and economical option for many small boats and one design classes that restrict the use of higher modulus fibers. At the same time they present a technical appearance in keeping with the carbon and black aramid fabrics on larger race boats.



ZIGZAG TECHNOLOGY



APPLICATIONS ZZ BLACK POLYESTER LAMINATES

BOAT LENGTH		MAINSAIL		HEADSAIL		
IN FT	IN M	MULTIHULL	MONOHULL	100%	135%	150%
± 24	± 7	ZP 19	ZP09 / ZP13	ZP09 / ZP13	ZP06 / ZP09	ZP06
± 28	± 8	-	ZP13 / ZP19	ZP13 / ZP19	ZP09 / ZP13	ZP06 / ZP09
± 32	± 10	-	ZP13 / ZP19	ZP13 / ZP19	ZP13 / ZP19	ZP09 / ZP13
± 36	± 11	-	ZP13 / ZP19	-	ZP19	ZP13 / ZP19