

Radial and Crosscut Laminate Sails

Flexible Taffeta Laminate (FTL)

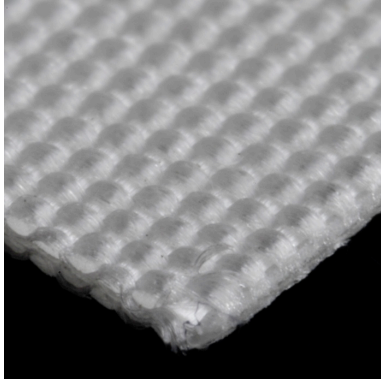


Photo of FTL-410 taken through our laboratory microscope

Flexible Taffeta Laminate (FTL) is CSF's soft Mylar and Polyester laminate. FTL provides a similar type of material to that already offered by Contender's Trifab™ Cruising Laminate or North Sails Soft Norlam™ product lines.

FTL is ideal for cruising applications where a durable performance laminate is required with a soft hand. It is equally suitable for both cross cut and radial sails.

FTL is a price competitive upgrade from Dacron and sits below MCL in our product price range.

FTL consists of a Taffeta laminated either side of a Mylar film. The material is then coated with a chemical formulae in a proprietary process developed exclusively by CSF, before being conventionally heat set. The material is treated with anti mildew and anti UV additives.

FTL feels and handles like woven polyester - two tough high tenacity woven polyester taffetas are laminated either side of the Mylar before being coated and heat set just like normal polyester woven cloth.

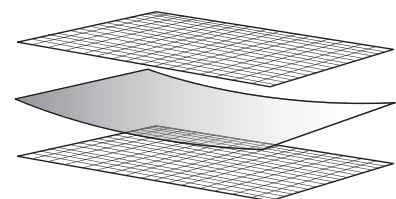
FTL Specifications

Style	Taffeta	Film	Taffeta	Taffeta DPI in Warp	Taffeta DPI in Weft	Cloth Weight		Cloth Width
						SM Oz	gs / m ²	
FTL-150	75 g/m ² high tenacity polyester	1 Mil 23 Micron	75 g/m ² high tenacity polyester	17,250	13,200	4.8	205	1370 / 54
FTL-235	160 g/m ² high tenacity polyester	1 Mil 23 Micron	75 g/m ² high tenacity polyester	23,325	22,850	7.0	300	1370 / 54
FTL-320	160 g/m ² high tenacity polyester	1 Mil 23 Micron	160 g/m ² high tenacity polyester	29,400	32,500	9.2	394	1370 / 54
FTL-410	160 g/m ² high tenacity polyester	1 Mil 23 Micron	250 g/m ² high tenacity polyester	29,400	32,289	11.0	471	1370 / 54

FTL-550, a heavier style is available to special order. Also to special order is a FTL-115 style suitable for large yacht spinnaker staysails and for boats under 18 foot or 5.5 meters.

Material Characteristics

		FTL-150	FTL-235	FTL-320	FTL-410
Elongation at 10 bls (in 1/100ths of an inch)	Warp	3	5	4	4
	Weft (Fill)	5	3	2	2
	Bias 45°	9	8	6	7
Force required to elongate 1% (in foot/lbs)	Warp	52	60	58	60
	Weft (Fill)	35	48	84	75
	Bias 45°	20	25	32	32



FTL Application Chart

Boat Length		Mainsail	Furling Genoa	Jib < 110%
ft	m			
Under 18	Under 5.5	FTL - 150	FTL - 150	FTL - 150
18 - 25	5.5 - 7.5	FTL - 235	FTL - 150	FTL - 235
25 - 30	7.5 - 9.0	FTL - 235	FTL - 235	FTL - 235
30 - 35	9.0 - 10.5	FTL - 320	FTL - 320	FTL - 320
35 - 40	10.5 - 12	FTL - 410	FTL - 320	FTL - 410
40 - 45	12 - 14	FTL - 410	FTL - 410	FTL - 410
45 - 50	14 - 15.2	-	FTL - 410	-

Applications are advisory only – choice will depend on boat, usage, and sailing location.