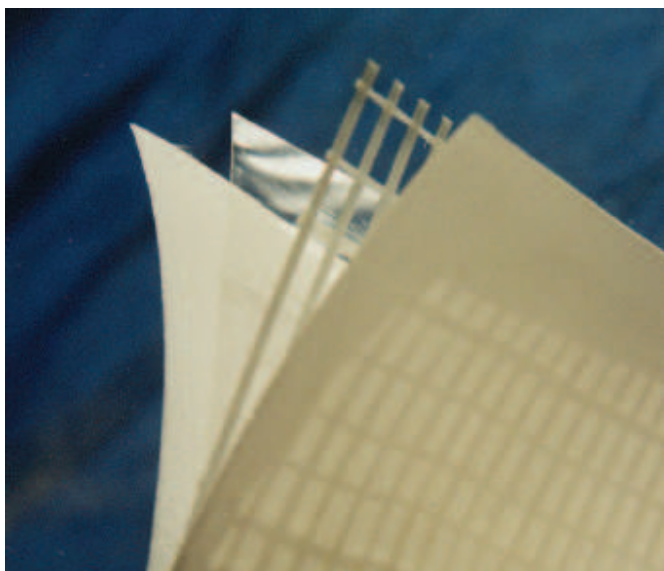




# PC90 Polyester Cruising Laminate



Challenge Sailcloth is pleased to announce its line of PET polyester cruising laminates. Consisting of layers of fabric / film / scrim / fabric, these fabrics are designed for the sailor who wants the performance of a laminate with the feel and look of a woven.

## Fiber / Construction

- PC90 has a scrim construction of 6 x 5 (warp x fill) yarns per inch of 3000 x 500 denier PET polyester.
- The scrim is a laid-up, non-woven matrix, made by a precise machine which inserts yarns with no crimp, so yarn masses efficiently resist stretch.
- There is a total of 2.0 mils of PET polyester film.
- Sandwiching the film and scrim is a beefy 150 denier low crimp PET polyester taffeta on both sides.
- The weight is 9.0 Oz. per sailmaker's yard. (28.5" x 36")

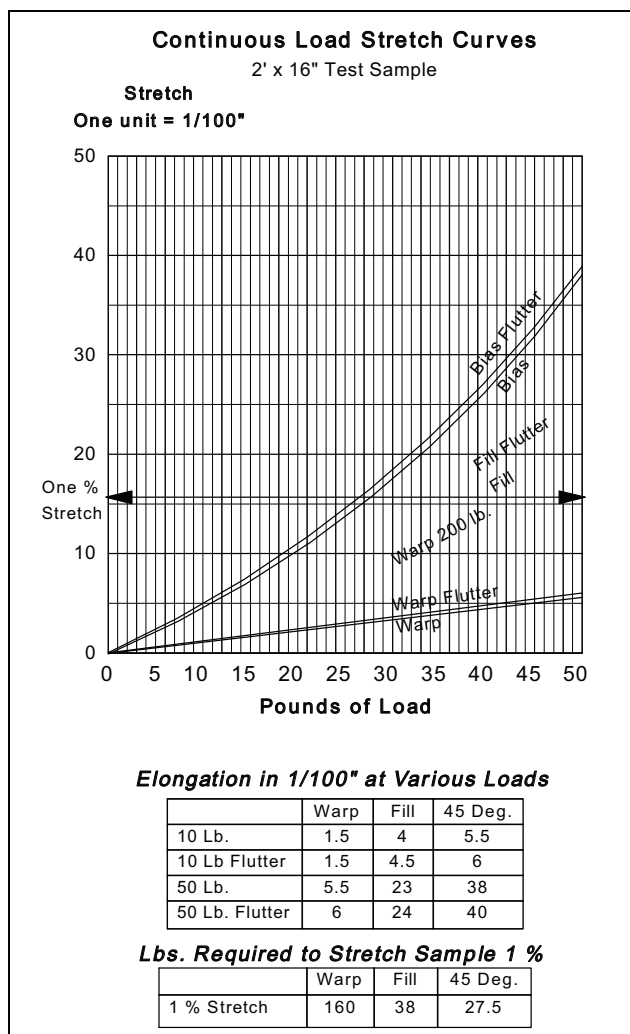
## Lamination

- These laminates are processed by Challenge personnel.
- All laminates are tested for adhesion on Challenge's state of the art impact flutter machine. Test samples of

0, 90, and 45 degree directions are smashed at high force onto a platform. After almost 1000 repetitions, the abuse is so severe that laminates with anything but superb adhesion fly apart. Other tests include: wicking, soaking, action-cycled washing, tear, breaking, and abrasion.

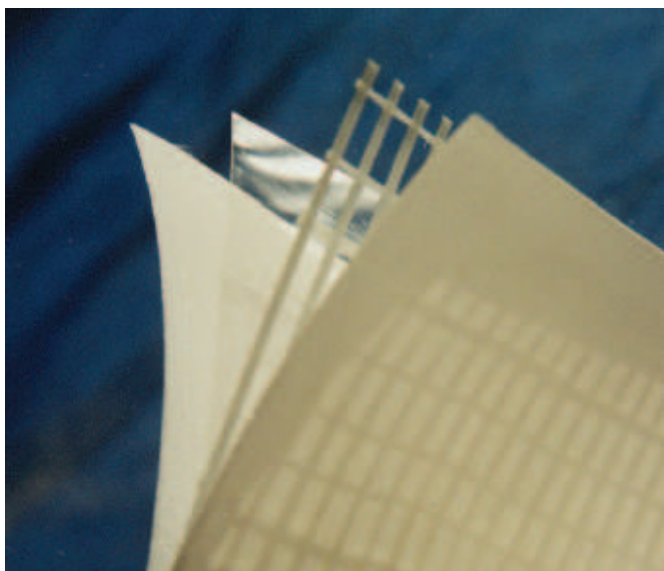
## Applications

- Radial mainsails and # 3 genoas on boats up to 44 feet.
- Medium or heavy # '1's on boats to 62'.
- # 2 genoas on up to 52' boats.





# PC110 Polyester Cruising Laminate



Challenge Sailcloth is pleased to announce its line of PET polyester cruising laminates. Consisting of layers of fabric / film / scrim / fabric, these fabrics are designed for the sailor who wants the performance of a laminate with the feel and look of a woven.

## Fiber / Construction

- PC110 has a scrim construction of 6 x 5 (warp x fill) yarns per inch of 4000 x 500 denier PET polyester.
- The scrim is a laid-up, non-woven matrix, made by a precise machine which inserts yarns with no crimp, so yarn masses efficiently resist stretch.
- There is a total of 2.0 mils of PET polyester film.
- Sandwiching the film and scrim is a beefy 150 denier low crimp PET polyester taffeta on both sides.
- The weight is 10.2 Oz. / sailmaker's yard. (28.5" x 36")

## Lamination

- All laminates are tested for adhesion on Challenge's state of the art impact flutter machine. Test samples of 0, 90, and 45 degree directions are smashed at high force onto a platform. After almost 1000 repetitions,

the abuse is so severe that laminates with anything but superb adhesion fly apart. Other tests include: wicking, soaking, action-cycled washing, tear, breaking, and abrasion.

## Applications

- Radial mainsails and # 3 genoas on boats up to 62 ft.
- Back ends (PC90 up front) of med, hvy. # '1's on boats to 70'. # 2 genoas on up to 65' boats.

