

Milliken®

Bladder Fabrics

Milliken's bi-elastic bladder fabric is commonly applied to reinforce the turn-up bladders of tire building machines. The fabric has excellent elongation properties in both longitudinal and transverse directions, which allow a very smooth 'deformation' of the bladder together with a significant improvement of its durability.

Milliken's bi-elastic bladder fabric is RFL treated for good adhesion to the bladder rubber after vulcanization. The same RFL finish also provides good release properties against the unvulcanized rubber of the green tire.

In order to improve processability and to simplify the assembly of the bladder, Milliken's bi-elastic bladder fabric is also available tackified on one side.

Bladder Fabric Product Overview

| Style | 2700 | 2732 | 2740 |
|----------------------------------|---|--------------|--------------|
| RFL TREATED | | | |
| Weight | 220 g/m2 | 420 g/m2 | 320 g/m2 |
| Gauge | 0,66 mm | 0,84 mm | 0,69 mm |
| Length | 100 m | 100m | 100 m |
| Width | up to 140 cm | up to 140 cm | up to 140 cm |
| Elongation at break | Up to 325% in Warp and up to 235% in Weft | | |
| Edges | Cold Slit | Cold Slit | Cold Slit |
| RFL TREATED AND TACKIFIED | | | |
| Weight | 220 g/m2 | 420 g/m2 | n/a |
| Gauge | 0,72 mm | 0,90 mm | n/a |
| Length | 50 m | 50m | n/a |
| Width | up to 140 cm | up to 140 cm | n/a |
| Elongation at break | Up to 325% in Warp and up to 235% in Weft | | |
| Edges | Cold Slit | Cold Slit | n/a |



Bi-Elastic Bladder Products

Style 2700

Turn-up bladders for PCR and light truck tires

Style 2732

Turn-up bladders for heavy duty applications

Style 2740

Sleeve and elastic hose reinforcements

Benefits

- Increased bladder lifetime up to 30.000 cycles
- Increased tire production per building machine
- Material can be slit according to customers' requirements
- Fabric is RFL treated to ensure superior adhesion to the bladder
- The bi-elastic bladder fabric is also available in a single-sided tackified version for easier bladder assembly

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