

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. This allows 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 rubberized on one side.

## Bladder Fabric Product Overview

Style	2700	2732	2740	2750
RFL TREATED				
Weight	220 g/m2	420 g/m2	300 g/m2	N/A
Gauge	0,66 mm	0,90 mm	0,75 mm	N/A
Length	100 m	100m	100 m	N/A
Width	Up to 140 cm	Up to 140 cm	Up to 140 cm	N/A
Elongation at break	Up to 380 % in Warp and up to 250 % in Weft			
Edges	Cold Slit	Cold Slit	Cold Slit	N/A
RFL TREATED AND TACKIFIED				
Weight	280 g/m2	N/A	N/A	380 g/m2
Gauge	0,72 mm	N/A	N/A	0,78 mm
Length	50 m	N/A	N/A	50 m
Width	Up to 140 cm	N/A	N/A	Up to 140 cm
Elongation at break	Up to 380 % in Warp and up to 250 % in Weft			
Edges	Cold Slit	N/A	N/A	N/A



## Bi-Elastic Bladder Products

### Style 2700 & 2750

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 rubberized version for easier bladder assembly

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