

**TenCate Protective Fabrics
PBI® Stretch
Data Sheet**

GENERAL ATTRIBUTES

Nominal Weight.....7.1 osy (240 gsm)
Construction.....Woven (Twill)
Colors.....Natural Gold and Black
Made in America.....Yes
Fiber Content.....PBI®, DuPont™ Kevlar® and Elastane
Finish..... Super Shelltite™ (Modified)
Features.....Exceptional Stretch
Certification(s).....NFPA 1971

FLAME RESISTANCE

Thermal Protective Performance (NFPA 1971)

Caldura® ELITE with Nomex® Nano & Gore® Crosstech® Black.....37 - 39

Total Heat Loss (NFPA 1971)

Caldura® ELITE with Nomex® Nano & Gore® Crosstech® Black.....250 - 270

Vertical Flame: After Flame (NFPA 1971, warp x fill)

Initial.....0 x 0 sec

After Wash (5X).....0 x 0 sec

Vertical Flame: Char Length (NFPA 1971, warp x fill)

Initial.....< 0.5 x < 0.5 in (< 13 x < 13 mm)

After Wash (5X).....< 0.5 x < 0.5 in (< 13 x < 13 mm)

Vertical Flame: After Glow (NFPA 1971, warp x fill)

Initial.....0 x 0 sec

After Wash (5X).....21.0 x 16.0 sec

Thermal Shrinkage (NFPA 1971)

Before Wash.....1.5 x 1.3 percent

After Wash (5X).....1.9 x 0.4 percent

PHYSICAL TESTING

Trapezoidal Tear (ASTM 5587, NFPA 1971, warp x fill)

Initial.....27 x 28 lbf (120 x 124 N)

After Wash (5x).....26 x 26 lbf (115 x 115 N)

Tensile Strength (ASTM 5034, warp x fill)

Initial.....239 x 238 lbf (1,063 x 1,058 N)

After Wash (10x).....222 x 237 lbf (987 x 1,054 N)

Abrasion Testing

Taber Abrasion (ASTM D3884).....1,000 cycles

COMFORT

Flexibility (Shirley Stiffness Test, ASTM D 1388)

Initial.....1,061

After Wash (5X).....616

Water Absorption (AATCC 42)

Before Wash.....< 13 percent

After Wash (5X).....< 10 percent

Stretch

Stretch.....17 percent

Recovery.....96 percent

(continued)

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COMPOSITES SUMMARY

Balanced Performance

- Caldura® ELITE with Nomex® Nano & Gore® Crosstech® Black

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