

TenCate Protective Fabrics
PBI® XT
Data Sheet

GENERAL ATTRIBUTES

Nominal Weight.....7.5 osy (255 gsm)
Construction.....Woven (Modified Plain)
Colors.....Natural Gold & Black
Made in America.....Yes
Berry Compliant.....Natural Gold Version Available
Fiber Content.....PBI® & DuPont™ Kevlar®
Finish.....Super Shelltite™
Features.....PBI®-Protected DuPont™ Kevlar® Filament Reinforcement
Certification(s).....NFPA 1971 (2013 & 2018 Editions)

FLAME RESISTANCE

Thermal Protective Performance (NFPA 1971)
Quantum4™ & Stedfast Stedair® Gold.....42 - 44
Quantum3D® SL2 & Gore® Crosstech® Black.....45 - 47
Caldura® Elite with Nomex® Nano & Gore® Crosstech® Black.....36 - 38
Caldura® Elite with Nomex® Nano & Stedfast Stedair® Gold.....35 - 37
Caldura® Elite SL2 & Gore® Crosstech® Black.....40 - 42
Defender® M SL2 & Gore® Crosstech® Black.....42 - 44

Total Heat Loss (NFPA 1971)
Quantum4™ & Stedfast Stedair® Gold.....235 - 255
Quantum3D® SL2 & Gore® Crosstech® Black.....230 - 250
Caldura® Elite with Nomex® Nano & Gore® Crosstech® Black.....295 - 315
Caldura® Elite with Nomex® Nano & Stedfast Stedair® Gold.....285 - 305
Caldura® Elite SL2 & Gore® Crosstech® Black.....245 - 265
Defender® M SL2 & 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.....< 0.6 x < 0.6 in (< 15 x < 15 mm)
After Wash (5X).....< 0.4 x < 0.4 in (< 10 x < 10 mm)

Thermal Shrinkage (NFPA 1971)
Initial.....< 2.0 percent
After Wash (5X).....< 3.0 percent

Heat Resistance (NFPA 1971)Pass

PHYSICAL TESTING

Trapezoidal Tear (NFPA 1971, warp x fill)
Natural Gold: Initial.....55 x 55 lbf (245 x 245 N)
Natural Gold: After Wash (5x).....55 x 55 lbf (245 x 245 N)
Black: Initial.....46 x 44 lbf (205 x 196 N)
Black: After Wash (5x).....41 x 42 lbf (187 x 182 N)

Tensile Strength (NFPA 1971, warp x fill)
Natural Gold: Initial.....300 x 300 lbf (1,334 x 1,334 N)
Natural Gold: After Wash (10x).....280 x 280 lbf (1,246 x 1,246 N)
Black: Initial.....270 x 260 lbf (1,201 x 1,157 N)
Black: After Wash (5x).....250 x 260 lbf (1,112 x 1,157 N)

(continued)

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COMFORT

Water Absorption (AATCC 42)

Before Wash.....< 2.0 percent
After Wash (5X).....< 5.0 percent

COMPOSITES SUMMARY

Breathability Performance

- Caldura® ELITE with Nomex® Nano & Gore® Crosstech® Black
- Caldura® ELITE with Nomex® Nano & Stedfast Stedair® Gold

Balanced Performance

- Quantum4™ & Stedfast Stedair® Gold
- Caldura® Elite SL2 & Gore® Crosstech® Black
- Defender® M SL2 & Gore® Crosstech® Black

Thermal Performance

- Quantum3D® SL2 & Gore® Crosstech® Black

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