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
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)
COMPOSITES SUMMARY

Balanced Performance
  • Caldura® ELITE with Nomex® Nano & Gore® Crosstech® Black

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