



**PBI MAX**<sup>TM</sup>  
with filament twill technology



MAX PROTECTION, MAX DURABILITY, MAX COMFORT...  
JOIN THE REVOLUTION. WEAR PBI MAX.

Ask any firefighter what they look for in an outer shell and they will mention the same three things: Protection, Durability, and Comfort. To improve on PBI Matrix<sup>®</sup> and design a fabric with even better performance was thought by many to be just science fiction. That is, until we saw into the future.

Safety Components is proud to introduce the next generation in a stellar history of PBI outer shell fabrics: PBI Max<sup>™</sup>. The PBI Max patented design offers firefighters the best combination of break open and thermal protection, the strongest outer shell fabric in the world, and the most flexible and comfortable outer shell fabric the fire service has ever seen.

PBI Max is the only outer shell that delivers triple-threat performance — unmatched protection, unmatched durability, and unmatched comfort.



“ 70%

of the Top 10

Metro Cities specify

Safety Components

protective fabrics. ”



**SAFETY COMPONENTS**

PROVEN PROTECTION. PROVEN PERFORMANCE. PROVEN DURABILITY.



# Turnout Gear Fabric Technologies

**Conventional Rip-Stop Design**



**Stiff  
Uncomfortable  
Heavy  
Weak**

**State-of-the-Art Filament Twill Technology™**



**Flexible  
Comfortable  
Lighter Weight  
Strong**



**WEIGHT/ BLEND:** 7.0 oz. - 70% PBI/DuPont Kevlar spun yarns  
30% 600 denier DuPont Kevlar filament

6.0 oz. - 70% PBI/DuPont Kevlar spun yarns  
30% 400 denier DuPont Kevlar filament

**WEAVE:** Comfort Twill with Filament Twill Technology

**COLOR:** Gold and Black

**FINISH:** Teflon™ F-PPE

## Filament Twill Technology

Technology in PPE has advanced at an amazing rate over the last few years. Lighter, stronger, more flexible FR fabrics coupled with ergonomic garment designs have revolutionized the way firefighters perform while wearing turnout gear. Filament Twill Technology™ (see diagram above), developed by Safety Components, has been adopted by more large metro cities over the last few years than any other PBI outer shell. Flexible fabrics woven with filament and spun yarns in an exclusive twill weave design are making rip-stop fabrics a thing of the past.

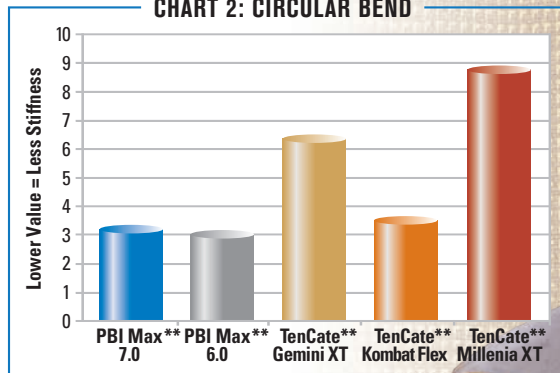
## Improved Durability

Most firefighters agree longevity in turnout gear comes from better tear strength. While some companies try to spin abrasion as the most important indicator of durability, turnout gear isn't retired from holes due to abrasion. Turnout gear is retired when it starts ripping and tearing from "wear and tear" and UV degradation. Genuine DuPont™ Kevlar® filament allows PBI Max™ to resist tearing (see chart 1) for a longer period of time than traditional outer shells like TenCate Gemini™ XT, TenCate Kombat™ Flex, TenCate Advance Ultra®, and TenCate Millenia™.

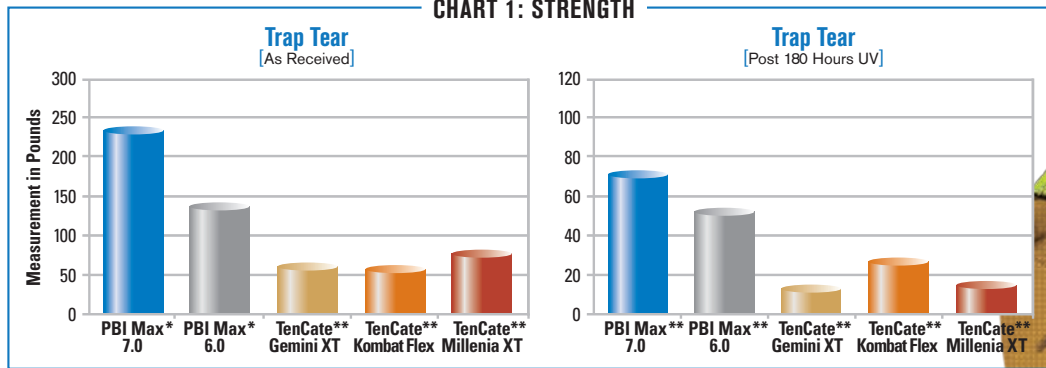
## Improved Comfort/Flexibility

Protection and durability are important characteristics of any outer shell...but so is comfort and flexibility. Better comfort and flexibility (see chart 2) lead to better mobility. Better mobility can make all the difference in a life threatening situation. Firefighters looking for premium protection no longer have to sacrifice mobility... with PBI Max, mobility is possible.

**CHART 2: CIRCULAR BEND**



**CHART 1: STRENGTH**



Strength values denote lowest value of warp or fill. \*UL test results. \*\*Independent lab results.

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Safety Components maintains ISO 9001:2000, TS 16949 and ISO 14001 certifications. Our fabric testing laboratories are ISO 1725 approved, ASTM (North America), DIN (Europe), JIS (Asia), and NFPA certified. Throughout our 100 year history, Safety Components has developed a reputation for product quality, product innovation, product diversity and on-time delivery.

Intellectual property contained in PBI Max is protected by US patent numbers 8793814, 8819866, 9364694, 6065153, 6192520, 6606749, 6886184 and 7581260.

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DuPont™ Kevlar®

