

MOVE FORWARD with the ultimate in LIGHTWEIGHT PROTECTION

The future of lightweight outer shell protection has arrived! As the world's largest producer of PBI outer shell fabrics, Safety Components is proud to introduce PBI Max[™] LP[™]. Lighter, stronger, with enhanced break open protection — it's truly lightweight perfected.



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PBI LP is a revolutionary new PBI fiber that raises the bar on break open protection. Compared to traditional PBI fiber, PBI LP exhibits stronger molecular bonds (shown in blue above) for better dimensional stability, increased flame resistance and better break open protection.

Improved Performance in a Lightweight Outer Shell

Lightweight outer shells made of traditional PBI fiber have historically broken down after 25 seconds or less under dynamic flame. Enter PBI LP fiber offered by Safety Components: PBI Max LP (180 gram) lasts over 40 seconds under dynamic flame for unmatched flame protection.







The Dynamic Flame Test illustrates the time it takes for an outer shell fabric to break down after exposure to flame. The 180 gsm PBI Max[®] LP[®] fabric endured over 40+ seconds of exposure, while the heavier 205 gsm Meta/Para Aramid outer shell failed after just 3 seconds.

Lightweight Doesn't Mean Light Duty

<u>WE SAVE LIVES.</u>

PBI Max LP in a lightweight 180 gsm design doesn't mean light-duty. By incorporating 30% DuPont[™] Kevlar[®] filament, PBI Max LP is designed to increase tear resistance by up to four times that of competitive PBI fabrics. PBI Max LP is not only stronger new, but just as important, it is stronger throughout the life of the garment after exposure to UV (the element most damaging to FR fabrics). For maximum durability against the hazards firefighters see day-in and day-out, specify PBI Max LP.



SAFETY COMPONENTS (2) Elevate Textiles

IT'S WHAT WE HAVE IN COMMON.

40 Emery Street - Greenville, SC 29605 - 800-896-6926 ext. 25 - www.safetycomponents.com

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. Filament Twill Technology is a trademark of Safety Components, Inc. PBI Max 10 PBI Max LP are trademarks of PBI Performance Products, Inc. DuPont and Kevlar are trademarks of DuPont or its affiliates.



Weight: 180 gsm

- Blend: 70% PBI LP/para-aramid spun yarns 30% DuPont[™] Kevlar[®] filament
- Weave: Comfort twill with Filament Twill Technology
- Color: Gold and Black

Heat & Flame Protection			
Test Description	Test Method	Unit	Values (Warp × Fill)
Heat Resistance after 5 Launderings Flame	ISO 17493	Seconds	0 × 0
Heat Resistance after 5 Launderings Melting	ISO 17493	-	NMND
Heat Resistance after 5 Launderings Shrinkage	ISO 17493	Percent	1.1 × 0.7
Limited Flame Spread after 5 Launderings Hole Formation	EN ISO 15025 (Method A)	-	No
Limited Flame Spread after 5 Launderings Molten or Flaming Debris	EN ISO 15025 (Method A)	-	No
Limited Flame Spread after 5 Launderings After Flame	EN ISO 15025 (Method A)	Seconds	0 × 0
Limited Flame Spread after 5 Launderings After Glow	EN ISO 15025 (Method A)	Seconds	0 × 0
Limited Flame Spread after 5 Launderings Char Length	EN ISO 15025 (Method B)	mm	39 × 37
Limited Flame Spread after 5 Launderings Molten or Flaming Debris	EN ISO 15025 (Method B)	-	No
Limited Flame Spread after 5 Launderings After Flame	EN ISO 15025 (Method B)	Seconds	0 × 0
Information is presented in good faith and believed to be accurate.			

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Kevlar