

50% MicroTwaron®
 30% Lenzing FR®
 20% PBI®



PBI TRIGUARD® 650

Advanced Personal
 Protection for the
 work you do...

PBI Triguard® maximizes personal safety by providing unmatched protection against the heat and flame of fire, flash fire and electric arc.

The PBI Triguard® Advantage gives you superior thermal performance, total protection, comfort and light-weight with excellent durability and moisture management or water repellency.

Features and Advantages:

- Extreme heat resistance
- Does not ignite or burn
- Does not melt or drip
- Does not shrink, crack or embrittle
- No break open after 4 second mannequin test
- Superior resistance to abrasion, punctures and tears
- Provides excellent moisture wicking with WikQik® by Difco
- Breathable
- Lighter weights than traditional fabrics
- Minimizes the risk of heat stress related injuries with the best thermal protection – superior TPP
- Durable and long lasting

Place swatch here
 4.5" x 6"

Place swatch here
 4.5" x 5"

Place swatch here
 4.5" x 4"

Place swatch here
 4.5" x 3"

Place swatch here
 4.5" x 2"



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TECHNICAL SPECIFICATIONS

Rev:190310

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Style			PBI TRIGUARD® 650			
Weight			6.3 oz/yd ² 214 g/m ²			
Fibre Content			50% MicroTwaron® 30% Lenzing FR® 20% PBI®			
Weave Type			2 X 1 Twill			
Finish			WikQik®			
Width			61" (155 cm)			
End Use			Shirts, Pants, Coveralls, Jackets			
Color						
Test	Method & Specification		Performance			
Flame resistance - as is			Warp		Fill	
After flame (sec)	ASTM D6413	max. 2 sec	0	0		
Char length (mm)		max. 100 mm or 4"	19 mm	0.7"	21 mm	0.8"
Melt / Drip		no melt, no drip	complies			
Flame resistance - 100 washes			Warp		Fill	
Char length (mm)		max. 100 mm or 4"	20 mm	0.8"	16 mm	0.6"
Instrumented Manikin test	ASTM F1930	max. 50%	% Predicted body burn: 20.76			
Heat resistance - as is	500°F/5 min.	no melt, separation, dripping or ignition	complies			
Thermal shrinkage (%) as is		max. 10%	< 3		< 3	
Electric Arc Resistance		ASTM F1959 ATPV (cal/cm ²)		8.5 (Level 2)		
TPP contact	NFPA 2112	min. 3 cal/cm ²	as is: 9.3	washed: 11.1		
TPP with spacer	sec 8.2	min. 6 cal/cm ²	as is: 16.4	washed: 19.5		
RPP - 5 washes	NFPA 1977	min. 7 cal/cm ²	9.4			
THL - 5 washes	ASTM F1868	min. 450 W/m ²	707.2			
Cleaning shrinkage (%) 5 cycles	AATCC 135 1 - IV - Ai	max. 5%	≤ 4	≤ 2		
Tensile Strength-Grab(N) as is	Can/CGSB 4.2 No. 9.2 (ASTM D5034)		1025 N	230 lbf	845 N	190 lbf
Tear resistance-Trap(N) as is	Can/CGSB 4.2 No. 12.2		90 N	20 lbf	80 N	18 lbf
Taber Abrasion	(H-38, 500 g)		2000 Cycles			
Component Certified by UL for:	NFPA 2112 ed. 2007		Yes			
	CAN/CGSB 155.20 ed. 2000		Yes			
	NFPA 1977 ed. 2005		Yes			
	CAN/CGSB 155.22 ed. 1997		Yes			
Other:	ASTM F1506 (NFPA 70E / CSA Z462)		meet requirements			



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