



# Technical Data Sheet

# PbiTRIGUARD™ 450



Product		PbiTRIGUARD™ 450	
Weight oz / yd <sup>2</sup>		4.5 (153 g/m <sup>2</sup> )	
Fibre Content		50%Twaron/30%Lenzing FR®/20%PBI®	
Weave Type		2 X 1 Twill	
Width		61" (155 cm)	
End Use		Shirts, Coveralls	
Tests	Methods & Specifications	Performances	
<b>Flame resistance - as is</b>	<b>ASTM D 6413</b>	<b>Warp</b>	<b>Fill</b>
After flame (sec)	max. 2 sec	0	0
Char length (mm)	max. 100 mm or 4"	16.0 (0.6")	19.0 (0.7")
Melt / Drip	no melt, no drip	complies	
<b>Flame resistance - 100 washes</b>	<b>ASTM D 6413</b>	<b>Warp</b>	<b>Fill</b>
Char length (mm)	max. 100 mm or 4"	23.0 (0.9")	20.0 (0.8")
<b>Instrumented Manikin test</b>	ASTM F1930	max. 50%	
<b>Heat resistance - as is</b>	500F/5 min.	no melt, separation, dripping or ignition	
<b>Thermal shrinkage (%) - as is</b>		complies	
		max. 10%	< 3
<b>Electric Arc Resistance</b>	ASTM F1959 <b>ATPV (cal/cm<sup>2</sup>)</b>	<b>6.0 (Level 1)</b>	
<b>TPP contact</b>	NFPA 2112	min. 3 cal/cm <sup>2</sup>	as is: <b>7.3</b> washed: <b>8.1</b>
<b>TPP with spacer</b>	sec 8.2	min. 6 cal/cm <sup>2</sup>	as is: <b>12.2</b> washed: <b>13.6</b>
<b>Cleaning shrinkage (%) 5 cycles</b>	AATCC 135 1 - IV - Ai	max. 5%	≤ 3.0
<b>Tensile Strength-Grab(N) - as is</b>	Can/CGSB 4.2 No. 9.2 (ASTM D5034)	750.0 (170 lbs)	550.0 (125 lbs)
<b>Tear resistance-Trap(N) - as is</b>	Can/CGSB 4.2 No. 12.2	65.0 (14 lbs)	60.0 (13 lbs)
<b>Taber Abrasion</b>	(H-38, 500 g)	1300 Cycles	

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Certification UL:  
 NFPA 2112 2007 Edition  
 Can/CGSB 155.20 2000 Edition

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