



Product		PbiTRIGUARD™ 590		
Weight oz / yd <sup>2</sup>		5.3 (180 g/m <sup>2</sup> )		
Fibre Content		50%Twaron/30%Lenzing FR®/20%PBI®		
Weave Type		Rip Stop		
Width		61" (155 cm)		
End Use		Shirts, Pants, Coveralls, Jackets		
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"	24.0 (0.9")	23.0 (0.9")	
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"	29.0 (1.1")	30.0 (1.2")	
<b>Heat resistance - as is</b>	500F/5 min.	no melt, separation, dripping or ignition		
<b>Thermal shrinkage (%) - as is</b>		complies		
<b>RPP - 5 washes</b>	NFPA 1977	min. 10%	≤ 4	≤ 4
<b>TPP with spacer</b>	NFPA 1977	min. 7 cal/cm <sup>2</sup>	9.1	
<b>THL - as is</b>	NFPA 1951	min. 10 cal/cm <sup>2</sup>	as is: <b>13.3</b>	washed: <b>15.2</b>
<b>THL - as is</b>	NFPA 1951	min. 650 W/m <sup>2</sup>	735.6	
<b>Cleaning shrinkage (%) 5 cycles</b>	AATCC 135 1 - IV - Ai	max. 5%	≤ 3.0	≤ 3.0
<b>Tensile Strength-Grab(N) - 10 w</b>	NFPA 1951	min. 400 N (90 lbs)	699.3 (157 lbs)	704.9 (158 lbs)
<b>Tear resistance-Trap(N) - as is</b>	Can/CGSB 4.2 No. 12.2	min. avg.: 45 N (no single result < 42N)	79.0 (18 lbs)	82.5 (19 lbs)
<b>Puncture Propagation Tear - 25 w</b>	NFPA 1999	min. 25 N (5.5 lbs)	44.8 (10 lbs)	43.6 (10 lbs)
<b>Water Absorption resistance</b>	NFPA 1951	max. 15%	as is: <b>1.7</b>	10 washes: <b>7.2</b>
<b>Electric Arc Resistance</b>	ASTM F1959 ATPV (cal/cm <sup>2</sup> )	<b>6.2 (Level 1)</b>		
<b>Taber Abrasion</b>	(H-38, 500 g)	2000 Cycles		

Revision Date: August 2007

**Certification UL:**

NFPA 1951 2007 Ed., NFPA 1999 2003 Ed.  
NFPA 1977 2005 Ed. & Can/CGSB 155.22 1997 Ed.

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