



Product		PbiTRIGUARD™ 650	
Weight oz / yd ²		6.3 (215 g/m ²)	
Fibre Content		50%Twaron/30%Lenzing FR®/20%PBI®	
Weave Type		2 X 1 Twill	
Width		61" (155 cm)	
End Use		Shirts, Pants, Coveralls, Jackets	
Tests	Methods & Specifications	Performances	
Flame resistance - as is	ASTM D 6413	Warp	Fill
After flame (sec)	max. 2 sec	0	0
Char length (mm)	max. 100 mm or 4"	19.0 (0.7")	21.0 (0.8")
Melt / Drip	no melt, no drip	complies	
Flame resistance - 100 washes	ASTM D 6413	Warp	Fill
Char length (mm)	max. 100 mm or 4"	20.0 (0.8")	16.0 (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/cm²)	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%	≤ 4.0 ≤ 2.0
Tensile Strength-Grab(N) - as is	Can/CGSB 4.2 No. 9.2 (ASTM D5034)	1025.0 (230 lbs)	845.0 (190 lbs)
Tear resistance-Trap(N) - as is	Can/CGSB 4.2 No. 12.2	min. avg.: 45 N (no single result < 42N)	90.2 (20 lbs) 81.5 (18 lbs)
Taber Abrasion	(H-38, 500 g)	2000 Cycles	

Revision Date: August 2007

Certification UL:

NFPA 2112 2007 Ed. & Can/CGSB 155.20 2000 Ed.
NFPA 1977 2005 Ed. & Can/CGSB 155.22 1997 Ed.

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