



Style 155570  
7 oz. Twill  
88/12 Cotton/Nylon

<u>7 oz. Twill</u>	<u>Process Averages*</u>	<u>Specs*</u>	<u>Test Method</u>
Weight	7.8 oz/yd <sup>2</sup> (+/- 5%)	7.6 oz/yd <sup>2</sup> (+/- 5%)	ASTM D3776
Width-Min.	64.5"	>63.0" cuttable	
Tear Strength (lbs W X F)	8.8 x 6.8	>7.0 x >5.0	ASTM D1424
Tensile Strength (lbs W X F)	155 x 69	>100 x >60	ASTM D5034
Air Permeability (cfm)	61	>50	ASTM 737
Laundry Shrinkage (W X F)	1.8% x <1.2%	<3.0% x <3.0%	ASTM 1506 AATCC 135-3, IV, Aiii
10 IL** Shrinkage (W X F)	2.3% x <1.3%	<5.0% x <5.0%	** Wash Method as specified by NFPA 2112
TPP (contact/spaced)	9/10	>3/6	NFPA 2112-2007
Vertical Flame	3.14"	<4.0"	ASTM D6413
Thermal Shrinkage	2.5%	<10%	NFPA 2112-2007
Arc Rating (ATPV)	9.2 cal/cm <sup>2</sup>	>8.0	ASTM F1959
Thermal Manikin	18.3% avg.	<50%	ASTM F1930

Certified to NFPA 2112, CAN/CGSB 155.20 

\*Note: "Process Averages" are historical estimates and actual results may vary from lot to lot (but will meet the minimum "Specs.")

Revision 9 3/13/2009

Please Note: Amplitude fabrics are innovative, high-tech, flame resistant materials intended to be used in garments that supplement personal protective equipment that reduce the flammability risks of momentary exposure to electric arc flash and flash fire hazards. They may be used as a layer of, but are not intended for use as the primary protection in fire fighting garments or other products subject to repeated or extended exposure to heat or flame. Use caution near sources of flame or intense heat and do not launder with bleach or fabric softeners. As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at [www.milliken.com/terms](http://www.milliken.com/terms) (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.



Style 155590  
9 oz. Twill  
88/12 Cotton/Nylon

<u>9 oz.Twill</u>	<u>Process Averages*</u>	<u>Specs*</u>	<u>Test Method</u>
Weight	9.30 oz/yd <sup>2</sup> (+/- 5%)	9.20 oz/yd <sup>2</sup> (+/- 5%)	ASTM D3776
Width-Min.	63.5"	>63.0" cuttable	
Tear Strength (lbs W X F)	11.4 x 10.1	>7.0 x >7.0	ASTM D1424
Tensile Strength (lbs W X F)	200 x 95	>130 x >80	ASTM D5034
Air Permeability (cfm)	28	>20	ASTM 737
Laundry Shrinkage (W X F)	2.4% x <0.4%	<3.0% x <3.0%	ASTM 1506 AATCC 135-3, IV, Aiii
10 IL** Shrinkage (W X F)	3.2% x <0.6%	<5.0% x <5.0%	** Wash Method as specified by NFPA 2112
TPP (contact/spaced)	10.9/12.0	>3/6	NFPA 2112-2007
Vertical Flame	3.04"	<4.0"	ASTM D6413
Thermal Shrinkage	2.8%	<10%	NFPA 2112-2007
Arc Rating (ATPV)	12.4 cal/cm <sup>2</sup>	>8.0	ASTM F1959
Thermal Manikin	9.6% avg.	<50%	ASTM F1930

Certified to NFPA 2112, CAN/CGSB-155.20 

\*Note: "Process Averages" are historical estimates and actual results may vary from lot to lot (but will meet the minimum "Specs.")

Revision 9 3/13/2009

Please Note: Amplitude fabrics are innovative, high-tech, flame resistant materials intended to be used in garments that supplement personal protective equipment that reduce the flammability risks of momentary exposure to electric arc flash and flash fire hazards. They may be used as a layer of, but are not intended for use as the primary protection in fire fighting garments or other products subject to repeated or extended exposure to heat or flame. Use caution near sources of flame or intense heat and do not launder with bleach or fabric softeners. As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at [www.milliken.com/terms](http://www.milliken.com/terms) (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.