

# FABRIC DATA



PROPERTIES	580	580A	700	700A	850A
Nominal Weight	5.8 osy (200 gsm)	5.8 osy (200 gsm)	7.0 osy (240 gsm)	7.0 osy (240 gsm)	8.5 osy (290 gsm)
Woven Type	Twill	Twill	Twill	Twill	Twill
Fiber Blend	Modacrylic, Cellulose & Aramid	Modacrylic, Cellulose & Aramid	Modacrylic, Cellulose & Aramid	Modacrylic, Cellulose & Aramid	Modacrylic, Cellulose & Aramid
Colors Available	High-Vis Yellow, Yellow, Orange, Red, Light Blue, Royal Blue, Gray & Khaki	Navy Blue	High-Vis Yellow, Yellow, Orange, Red, Light Blue, Royal Blue, Gray & Khaki	Navy Blue	Navy Blue
Coolderm™ Technology	Yes	Yes	Yes	Yes	Yes
Made in America	Yes	Yes	Yes	Yes	Yes
PROTECTION	580	580A	700	700A	850A
Personal Protective Equipment (PPE) <small>NFPA 70E</small>	Category 1	Category 1	Category 2	Category 2	Category 2
Electric Arc Rating <small>ASTM 1959</small>	6.5 cal/cm <sup>2</sup>	5.7 cal/cm <sup>2</sup>	9.0 cal/cm <sup>2</sup>	10.1 cal/cm <sup>2</sup>	10.2 cal/cm <sup>2</sup>
Predicted Body Burn <small>ASTM 1930</small>					
3 seconds	22%	29%	13%	23%	19%
4 seconds	-	-	33%	-	-
Thermal Protective Performance (TPP)					
With Spacer	9.6 cal/cm <sup>2</sup>	9.8 cal/cm <sup>2</sup>	12.3 cal/cm <sup>2</sup>	10.0 cal/cm <sup>2</sup>	10.0 cal/cm <sup>2</sup>
Without Spacer	6.6 cal/cm <sup>2</sup>	6.5 cal/cm <sup>2</sup>	10.9 cal/cm <sup>2</sup>	7.5 cal/cm <sup>2</sup>	8.6 cal/cm <sup>2</sup>
<small>NFPA 2112 Standard: With 6.0 Minimum, Without 3.0 Minimum</small>					
Flame Resistance					
Before Laundering	< 4.0 in	< 4.0 in	< 4.0 in	< 4.0 in	< 4.0 in
After Flame	< 10.0 cm	< 10.0 cm	< 10.0 cm	< 1001 cm	< 10.1 cm
<small>ASTM 6413, NFPA 2112 Standard: 4.0 in Maximum, 2 sec Maximum</small>	< 2 sec	< 2 sec	< 2 sec	< 2 sec	< 2 sec
Thermal Shrinkage (Before Laundering)	< 4.0% x < 6.0%	< 5.0% x < 8.0%	≤ 3.0%	< 4.0%	< 3.0%
<small>NFPA 2112 Standard: 10% Max</small>					
FABRIC STRENGTH	580	580A	700	700A	850A
Tensile Strength	114 lbf x 85 lbf	105 lbf x 80 lbf	135 lbf x 85 lbf	135 lbf x 85 lbf	145 lbf x 90 lbf
<small>ASTM 5034</small>	507 N x 378 N	467 N x 356 N	600 N x 378 N	600 N x 378 N	645 N x 400 N
Elmendorf Tear Strength	11 lbf x 10 lbf	11 lbf x 10 lbf	10 lbf x 8 lbf	12 lbf x 10 lbf	12 lbf x 10 lbf
<small>ASTM 1424</small>	49 N x 44 N	49 N x 44 N	44 N x 36 N	53 N x 44 N	53 N x 44 N
Dimensional Stability <small>AATCC 135</small>	≤ 3.0%	≤ 3.0%	≤ 3.0%	≤ 3.0%	≤ 3.0%
COMFORT & APPEARANCE	580	580A	700	700A	850A
Pilling Resistance	5	5	5	4 to 5	4 to 5
<small>ASTM 3512, Ratings: 5 Best, 3 Acceptable, 1 Poor</small>					
Wicking					
0.5 inch	3.5 sec	3.5 sec	3.5 sec	3.5 sec	3.5 sec
1.0 inch	13.0 sec	11.5 sec	13.0 sec	13.0 sec	11.0 sec
1.5 inches	29.0 sec	28.0 sec	29.0 sec	29.0 sec	29.0 sec
2.0 inches	61.0 sec	53.0 sec	61.0 sec	61.0 sec	51.0 sec
SunSHIELD™ UV Protection <small>Blocks 96% UVB Min</small>	50+ UPF	50+ UPF	50+ UPF	50+ UPF	50+ UPF



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All listed data represent typical values. Results from multiple tests unless otherwise stated. To the best of our knowledge, all information contained herein is accurate. TenCate Protective Fabrics USA assumes no liability whatsoever for the accuracy or completeness of the information contained herein. Users of any substance must satisfy themselves by independent investigation that the material can be used safely. TenCate Protective Fabrics describes only certain hazards but cannot guarantee these are the only hazards.

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