



GENESIS®

PROPERTIES	450	600
Nominal Weight	4.5 osy (155 gsm)	6.0 osy (205 gsm)
Fiber Blend	Aramid	Aramid
Colors Available <i>Other colors available upon request</i>	Red, Orange, Yellow, Lt Blue, Royal Blue, Navy, Spruce, Gray & Black	Red, Orange, Yellow, Lt Blue, Royal Blue, Navy, Spruce, Gray & Black
Made in America	Yes	Yes

PROTECTION	450	600
Electric Arc Rating <small>ASTM 1959</small>	4.6 cal/cm ² - 4.8 cal/cm ²	5.7 cal/cm ² - 5.9 cal/cm ²
Personal Protective Equipment (PPE) <small>NFPA 70E</small>	PPE 1	PPE 1
Thermal Protective Performance (TPP) With Spacer Without Spacer <small>NFPA 2112 Standard: With 6.0 Minimum, Without 3.0 Minimum</small>	10.5 cal/cm ² 5.5 cal/cm ²	12.0 cal/cm ² 6.0 cal/cm ²
Flame Resistance Char Length After Flame <small>ASTM 6413, NFPA 2112 Standard: 4.0 in Maximum, 2 sec Maximum</small>	< 4.0 in (< 10 cm) < 2 sec	< 4.0 in (< 10 cm) < 2 sec
Thermal Shrinkage (Before Laundering) <small>NFPA 2112 Standard: 10% Max</small>	3.0%	3.0%

FABRIC STRENGTH	450	600
Tensile Strength <small>ASTM D 5034</small>	170 lbf x 100 lbf 755 N x 455 N	240 lbf x 150 lbf 1,070 N x 670 N
Elmendorf Tear Strength <small>ASTM D 1424</small>	10 lbf x 7 lbf 45 N x 30 N	12 lbf x 8 lbf 55 N x 35 N
Dimensional Stability <small>AATCC 135</small>	≤ 3.0%	≤ 3.0%

LAUNDERING TESTING	450	600
Piling Resistance 30 minutes 60 minutes 90 minutes 120 minutes <small>ASTM 3512, Ratings: 5 Best, 3 Acceptable, 1 Poor</small>	4 5 5 5	4 5 5 5
Wicking 0.5 inch 1.0 inch 1.5 inch 2.0 inch	3.0 sec 13.0 sec 34.0 sec 62.0 sec	3.0 sec 10.0 sec 27.0 sec 58.0 sec
Washing Colorfastness (After 25 Launderings) <small>140°F (60°C) Industrial Wash, 160°F Max Stack Dry</small>	4	4
Air Permeability	210 ft ³ /ft ² /min	80 ft ³ /ft ² /min
Colorfastness to Xenon Light (20 hours) <small>AATCC 16, Ratings: 5 Best, 3 Acceptable, 1 Poor</small>	3 - 4	3 - 4



6501 Mall Boulevard
Union City, Georgia 30291
USA

+1 (770) 969-1000

TenCateFabrics.com

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.

Copyright © 2017 TenCate Protective Fabrics USA.

TenCate is a trademark of Royal TenCate. Omniweave is an internationally trademark of TenCate Protective Fabrics USA.