

OMNIWEAVE™



TIME-TESTED DURABILITY

Omniweave™ 680

MADE FOR THERMAL RISKS

This aramid fabric's time-tested construction offers wearers reliable inherent FR protection against heat and flame.

DURABILITY AND STRENGTH

Tough enough for rugged environments, our aramid fabrics stand up to the uniquely dangerous environments professionals face on the job.

TRUSTED LEGACY

A time-tested solution, industrial professionals around the globe have put their trust in the performance of aramid fabrics for over 50 years.

OMNIWEAVE™

TECHNICAL DATA*	OMNIWEAVE™ 680
Nominal Weight	6.8 osy (231 gsm)
Construction	Woven
Color	Royal**, Navy**, Spruce, Gray**, Black and Forestry Green
Fiber Content	Aramid, Anti-Stat
Certification(s)	ASTM 1506, NFPA 1975, NFPA 1977, NFPA 2112

Thermal Testing (Flame Resistance)

Manikin Burn CGSB 155.20, NFPA 2112	Predicted Body Burn	Pass
Arc Thermal Performance Value NFPA 70E, ASTM 1959	ATPV Rating	7.0 cal/cm ²
	PPE Category	Category 1
Vertical Flame ASTM 6413, NFPA 2112	Initial and 100x after wash	After flame < 2.0 sec
		Char length < 4.0 in (100 mm)
Thermal Shrinkage NFPA 2112	Initial and 3x after wash	< 10 %

Physical Testing

Tensile Strength ASTM D5034, warp x fill	255 x 190 lbf (1,135 x 845 N)
Elmendorf Tear ASTM D1424, warp x fill	12.0 x 8.0 lbf (53 x 36 N)
Dimensional Stability AATCC 135	< 3.0 %

Comfort

Air Permeability ASTM D737	Before wash	35 ft ³ /ft ² /min
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Appearance *Score 5 (best) to 1 (Worst)

Color Fastness Laundering AATCC 61 2A, AATCC 61 3A	Shade Change	Up to 4 (AATCC 61 2A) — Up to 4 - 5 (AATCC 61 3A) *
Xenon Light Exposure AATCC 16	After 20 hours	Up to 4 (20 hours) — Up to 3 - 4 (40 hours) — Up to 3 (60 hours) *
Pilling Resistance ASTM D3512	Initial: 60 min	Up to 5 *

* Appearance is dependent on shade of fabric.

** This product family has achieved or is in the process of achieving this third-party safety standard in every color and finish.

AVAILABLE COLORS

Royal**	Navy**	Spruce	Gray**
Black	Forestry Green		

OPTIONAL COLORS

Additional color options may be available. Please contact TenCate Protective Fabrics for more information.

Color shades and textures may vary. Please contact your sales representative for swatch samples.



STANDARD
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TenCate Protective Fabrics
is certified according:



All mentioned data must be considered as indicative values. To the best of our knowledge all information contained herein is accurate. TenCate Protective Fabrics declines any form of liability related to the use of the attached specimen that shall be regarded as a sample only and therefore not meant to be used in any form of garment making.