

UNBEATABLE ELECTRIC ARC PROTECTION



TenCate Tecasafe® Plus is a comfortable, light-weight fabric with inherent heat and flame resistant properties. NFPA 70E compliant, it provides durable and affordable electric arc protection to electricians, electrical contractors, and other professionals with potential exposure to electric arc flash. Below, you will see how this inherently flame-resistant fabric provides superior protection and outperforms the competition. There's also Tecasafe® Plus Hi-Vis yellow. No need to wear a separate Hi-Vis vest over your flame resistant shirt.

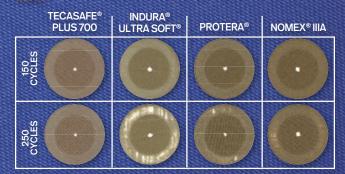
One of the bigger risks electrical workers encounter when working with live circuits is electric arc. An electric arc is created through an accidental short circuit. The duration of the arc is short, but the effects can be devastating. The electric arc acts like a powerful explosion, sending out a shockwave, molten metal and high-intensity radiant heat. This combination of elements can cause a worker's clothing to ignite, melt instantly or cause the clothing to break open, resulting in severe skin burns.

Tecasafe® Plus will protect the worker from the thermal hazards associated with electric arc incidents and minimize or completely prevent skin burns. The fabric will provide thermal insulation between the body and the heat source. It will not ignite, melt, or break open.

- Inherently flame resistant FR properties are built in, and won't wash or wear out. Exceeds NFPA 70E HRC 1, HRC 2, and NFPA 2112 performanc estandards.
- Comfortable to wear Soft and breathable. Superior moisture management because of special cellulosic fiber content.
- Exceptional durability Outstanding abrasion resistance and better strength retention after multiple commercial washes.
- Outstanding laundered appearance Fabric retains its like-new look and maintains permanent pressed appearance better than other protective fabrics.
- Excellent value Long life cycle and competitive price means lowest cost.

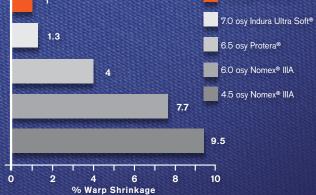
MADE * IN THE * USA

TABER ABRASION TEST RESULTS



RESISTANCE TO THERMAL SHRINKAGE NFPA 2112 TPP Thermal Shrinkage Test

Tecasafe® Plus 700



**TENCATE Tecasafe plus

PHYSICAL PROPERTIES	Tecasafe® Plus 580	Tecasafe® Plus 580-A	Tecasafe® Plus 700	Tecasafe® Plus 700-A	Tecasafe® Plus 850-A		A 70E rement HRC 2	NFPA 2112 Requirement
FABRIC WEIGHT (±5%) oz/yd² g/m²	5.8 197	5.8 197	7.0 238	7.0 238	8.5 288			
FIBER BLEND	fr-modacrylic lyocell aramid	fr-modacrylic lyocell aramid	fr-modacrylic lyocell aramid	fr-modacrylic lyocell aramid	fr-modacrylic lyocell aramid			
STANDARD COLORS (other colors available upon request)	• • •	•	••••	•	•			
ARC THERMAL PERFORMANCE VALUE (ATPV) (cal/cm²) ASTM F 1959	6.5	5.7	9.0	10.1	10.2	5.0 min	8.0 min	
FLAME RESISTANCE ASTM D 6413 Char Length (inches [warp x fill]) After Flame (seconds [warp x fill])	< 4.0 < 2.0	6.0 max	6.0 max	4.0 max 2.0 max				
THERMAL PROTECTIVE PERFORMANCE (cal/cm²) With spacer Without spacer	9.6 6.6	9.8 6.5	12.3 10.9	10.0 7.5	10.0 8.0			6.0 min 3.0 min
FLASH FIRE EXPOSURE (Manikin Test) ASTM F1930 (% body burn [2 cal/cm²/sec] @ 3 sec)	23	32	15	23.5	19			50.0 max
TENSILE STRENGTH (lbs [warp x fill]) ASTM D 5034	114 x 85	105 x 80	135 x 85	135 x 85	145 x 90			
ELMENDORF TEAR STRENGTH (lbs [warp x fill]) ASTM D 1424	11 x 10	11 x 10	10 x 8	12 x 10	12 x 10			
DIMENSIONAL STABILITY (% [5x]) 120°F AATCC 135	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0			
WICKING 1" strip, tap water (seconds) 0.5 inches 1.0 inches 1.5 inches 2.0 inches	3.5 13.0 29.0 61.0	3.5 11.5 28.0 53.0	3.5 13.0 29.0 61.0	3.5 13.0 29.0 61.0	3.5 11.0 29.0 51.0			
PILLING RESISTANCE (%) ASTM D 3512 30–120 minutes	*5	*5	*5	*4-5	*4–5			
THERMAL SHRINKAGE RESISTANCE (% [500°F, 5 minutes])	≤ 3.0	3.0	≤ 3.0	< 4.0	< 3.0			10.0 max

^{1.} Tecasafe plus Orange meets Canadian high-visibility safety standard CSA Z96-2009.

Ratings: *5-Best, *3-Acceptable, *1-Poor

CONTACT US AT:

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All listed test data and ranges represent typical values. All test data and ranges are the result of multiple tests unless otherwise stated. To the best of our knowledge, the information contained herein is accurate. However, TenCate Protective Fabrics 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. We have described certain hazards, but we cannot guarantee that these are the only hazards.

^{2.} Tecasafe plus Hi-Vis Yellow meets high-visibility safety standards ANSI 107 and CSA Z96-2009.