

19 FEB 2024				ARCFLASH SHIRTING		
TEST METHODS & STANDARDS				BENCHMARKS	COMPLIANCE	
			Protection Rating STANDARD IEC 61482-1-1:2019 STANDARD AS NZS 4836:2023 STANDARD NENS 09 - 2014 STANDARD NFPA 70E:2024	HRC2/PPE2	MEETS	
			ATPV Rating STANDARD ASTM F1959/F1959M - 13 STANDARD AS NZS 4836:2023 STANDARD NENS 09 - 2014 STANDARD NFPA 70E:2024	8+ Cal/cm²	MEETS	
	Heat resistance ISO 11611:2015 STANDARD ISO 17493:2016			NO LAYER CAN IGNITE, MELT OR SHRINK	MEETS	
	Heat resistance ISO 11612:2015 STANDARD ISO 17493:2016			NO LAYER CAN IGNITE, MELT OR SHRINK	MEETS	
	Limited Flame Spread ISO 11611:2015 Performance levels A1 & A2 STANDARD ISO 15025:2016 (METHOD A)			NO IGNITE, HOLE, MELT, AFTERFLAME OR AFTERGLOW	MEETS	
	Limited Flame Spread EN ISO 11612:2015 Performance levels A1 & A2 STANDARD ISO 15025:2016 (METHOD B)			NO IGNITE, HOLE, MELT, AFTERFLAME OR AFTERGLOW	MEETS	
	Heat Transmission on Exposure to Flames ISO 11612:2015 Performance level B1 STANDARD ISO 9151:2016			RANGE OF HTI* 24 VALUES MIN > 4 MAX < 10	MEETS	
	Contact heat ISO 11612:2015 Performance level F1 STANDARD ISO 12127-1:2015			THRESHOLD TIME (s) MIN > 5 MAX < 10	MEETS	
	Small Molten Metal Splash ISO 11611:2015 Class 1 STANDARD ISO 9150:1988			MINIMUM 15 DROPS	MEETS	
	Charge Decay EN 1149-5:2018 STANDARD ISO 1149-3:2004 (Method 2, induction charging)			$t_{50} < 4s \text{ ó } S > 0.2$	MEETS	
	Vertical Resistance EN 11611:2015 STANDARD ISO 1149-2:1997			$10^5 \Omega$	MEETS	
	Radiant Heat ISO 11611:2015 Performance level CLASS 1 STANDARD ISO 6942:2002, METHOD B			24s RHTI $\geq 7s$	EXCEEDS	
	Radiant Heat ISO 11612:2015 Performance level C1 STANDARD ISO 6942:2002, METHOD B			24s RHTI MIN > 7 MAX < 20	EXCEEDS	
	NFPA 2112 COMPLIANT			Standard on Protective Clothing for Protection of Industrial Personnel Against Flash Fire, 2012 Edition	MEETS	
	ASTM F 1506 COMPLIANT			Standard on Flame Resistant Textile Materials for Wearing Apparel for Use by Electrical Workers Exposed to Momentary Electric Arc and Related Thermal Hazards, 2010a Edition	MEETS	
	AS/NZS1906.4:2023 - HI VISIBILITY MATERIALS NON FLURO DAY CLASS			ORANGE YELLOW	MEETS	

ARCFLASH SHIRTING		
TEST METHODS & STANDARDS	BENCHMARKS	COMPLIANCE
Weight	195gsm +/- 5%	MEETS
Fibres	FR INHERENT BLENDS	N/A
Weave	RIPSTOP	N/A
Shrinkage after wash & dry STANDARD ISO 5077:2008	+/-3% BOTH DIRECTIONS	EXCEEDS <
Tear Strength STANDARD ISO 13937.2:2000	≥ 15N BOTH DIRECTIONS	EXCEEDS >
Breaking Strength STANDARD ISO 13934-1:2013	≥ 400N BOTH DIRECTIONS	EXCEEDS >
Colour Fastness to Rubbing ISO 105 x12	DRY 4 WET 3-4	EXCEEDS
Colour Fastness to Washing 40°C	4	MEETS
Colour Fastness to Light ISO 105 B02:2014	4	MEETS
Colour Fastness to Water ISO 105 E01-2013	4	MEETS
Colour Fastness to Perspiration ISO 105 E04-2013	ACID 4 ALKALINE 4	EXCEEDS
Abrasion Resistance ISO 12947 Part 2	10000 RUBS	EXCEEDS >
Tensile Strength AS 2001.2.3.1 Strip Method	WARP 370 N WEFT 300 N	EXCEEDS >
Tearing Strength ISO 13937-1:2000	WARP 12 N WEFT 12 N	EXCEEDS >
Pilling Resistance ISO 12945-2	AFTER 2000 RUBS 4	MEETS
Formaldehyde SASO ISO 14184-1	< 75 PPM	EXCEEDS <
Ph Value ISO 3071 : 2005	> 4 & < 9	MEETS