



ULTIMATE ARC CLASS LEADING FABRIC WITH MULTI-HAZARD PROTECTION

Class leading performance

Globally compliant lightweight
fabrics

Ultimate comfort, strength
and safety

Latest Oekotex class 1 Protex fibre

New technology with Patent
Protected blend

Dyeable to any corporate colours
and Hi Vis yellow

Inherent protection for the lifetime
of the fabric

Only available from licensed Protal
partners

www.protal.co.uk



IEC 61482



Quality Ref:	Protal Ultimate Arc
Composition:	Protal 5
Weight:	225gsm
Colour:	Navy

TECHNICAL DATA SHEET

	Test Method		Requirement	RESULT
Arc Rating	IEC 61482-1-1	ATPV		14 cal/cm ²
		EBT ₅₀		15 cal/cm ²
		ELIM		12 cal/cm ²
Heat Resistance	ISO 17943	Warp	<5.0%	-3.6%
		Weft	<5.0%	-3.6%
Manikin test	NFPA 2112:2018		<50%	1.20%
Molten Metal Splash	ISO 9150			Class 1
Heat Transmission	ISO 9151			B1
Radiant Heat	EN ISO 6942			C1
Tensile Strength	EN ISO 13934-1	Warp	> 300 N	820 N
		Weft	> 300 N	530 N
Tear Strength	EN ISO 13937-2	Warp	> 10 N	44 N
		Weft	> 10 N	39 N
Martindale Abrasion	ISO 12947-2			60000
Colourfastness to Light	ISO 105 BO2: Navy			5
Chromaticity	EN20471: High Vis Yellow		Pass	Pass
Charge Decay	EN 1149-3		Pass	Pass
Dimensional Stability	EN ISO 5077 after 5 wash/dry cycles	Warp	+/- 3.0%	-2.0%
		Weft	+/- 3.0%	-2.0%
	EN ISO 5077 after 25 wash/dry cycles	Warp	+/- 3.0%	-0.5%
		Weft	+/- 3.0%	-2.0%
	EN ISO 5077 after 100 wash/dry cycles	Warp	+/- 3.0%	-2.0%
		Weft	+/- 3.0%	-2.5%

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** Please note that the above data apart from EN20471 is based on testing of a Navy fabric.

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