



Quality Ref:	Protal 5
Composition:	Protal 5 Patented Blend
Weight:	180 gsm
Colour:	Navy / HVO

TECHNICAL DATA SHEET

Test Description	Test Method		Requirement	Result
Arc Rating	ASTM F1959 / F195M-14	ATPV		9.3 cal/cm ²
		HAF		77.5%
Electric Arc	IEC 61482-1-2 (Box Test)		Class 1	Class 1
Limited Flame Spread	EN ISO 15025 (Method A)		A1	A1
	EN ISO 15025 (Method B)		A2	A2
Heat Resistance	ISO 17943	Warp	<5.0%	-4.0%
		Weft	<5.0%	-4.9%
Manikin test	NFPA 2112:2018		<50%	3.7%
Contact Heat	ISO 12127			F1
Heat Transmission	ISO 9151			B1
Radiant Heat	EN ISO 6942			C1
Tensile Strength	EN ISO 13934-1	Warp	> 300 N	490 N
		Weft	> 300 N	430 N
Tear Strength	EN ISO 13937-2	Warp	> 10 N	46 N
		Weft	> 10 N	48 N
Colour fastness 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%	-2.00%
		Weft	+/- 3.0%	-1.00%

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