

**TECHNICAL DATA SHEET****Quality: 3111 Proban Drill****Carrington****Fabric Description**

Composition: 100% cotton  
 Usable Width: 150 cm  
 Nominal Length: 100 m  
 Weave: 3/1 twill  
 Fabric Weight: 340 g/m<sup>2</sup>  
 Application: FR workwear

**Washing Instructions**

*Do not bleach, do not boil, do not use soap based products only detergents.*

Physical Properties (min)	Warp	Weft
Tensile Strength: (BS EN ISO 13934-1:1999)	1300 N	750 N
Tear Strength: (BS EN ISO 13937-3:2000)	45 N	45 N
Washing Shrinkage * (max): (ISO 15797 after 5 washes @ 75°C)	3%	3%
Heat Shrinkage (max): (DEF STAN 83-65/4 160°C)	N/A	N/A
Abrasion Resistance: (9kPa) (BS EN ISO 12947-2:1999)	20, 000 rubs	
Pilling Resistance: (BS EN ISO 12945-2:2001)	N/A	

**Other Properties****Flame Retardancy to:**

EN ISO 11611:2007  
 EN ISO 11612 A1&2, B1, C1, E1, F1  
 EN ISO 14116 index 3/50/75

**Colour Fastness** (quoted below for vat dyes)

Wash Fastness	BS EN ISO 105-C06:1997 Method D2S (70°C)
Colour Change	4
Stain on polyester	4
Stain on cotton	4
Dry Clean Fastness	BS EN ISO D01:1995
Colour Change	4
Perspiration Fastness	BS EN ISO 105-E04:1996 Acid/Alkali
Colour Change	4
Staining	4
Rub Fastness	BS EN ISO 105-X12:1995
Wet	2-3
Dry	4
Light Fastness	BS EN 20105/ISO 105-B02 4

## Colour fastness for other classes of dye:

	Azoic
Wash Fastness	
Colour Change	3-4
Stain on Cotton	2-3
Dry Clean Fastness	
Colour Change	3-4
Rub Fastness	
Wet	1-2
Dry	3-4
Light Fastness	
White	3-4

**Electric Arc to:**

ENV 50354 Class 1 (4kA)  
 ASTM F1959 (ATVP value 9.2 cal/cm<sup>2</sup>)

**High Visibility** EN 471:2003 /2007

Yellow

The data quoted is based upon specific materials and tested by sources believed to be reliable and Carrington make no guarantee, express or implied as to use, handling or possession of its products.

N.B. Although there may be small differences between the British Standard and the ISO test method quoted, they are the same in all major respects.

Certain shades e.g. black, maroon and navy have lower values for wash fastness and wet rubbing fastness. Please consult Carrington for specific values.

Authorised by: SVM  
 Status: Current

Issue Date 20091029

Issue No. 14

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