

## Technical Report 1711068B

### 24<sup>th</sup> November 2017

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Sample supplied: Grey Cut-Tex ® PRO fabric, which was tested for:

#### 1. Cut resistance according to BS EN ISO 13997:1999.

The sample, in an unused state, was tested between 22<sup>rd</sup> – 24<sup>th</sup> November 2017. Testing took place within the Polyco Healthline Technology Centre, South Fen Road, Bourne, PE10 0DN only. The sample was tested as received.

The following results relate only to the sample item tested by the Polyco Healthline Technology Centre.

**Written by:** Helen Bristow – Laboratory Scientist

#### Conclusion:

Sample	Performance Level
Grey Cut-Tex ® PRO fabric	E

#### Test Procedure

TP004 Measurement of cut resistance according to BS EN ISO 13997:1999.

#### BS EN ISO 388:2016 Requirements for materials tested with EN ISO 13997

	Level A	Level B	Level C	Level D	Level E	Level F
Cutting load	≥2 N	≥5 N	≥10 N	≥15 N	≥22 N	≥30 N

**Authorised by:**  
 Ben Killick - Laboratory Scientist

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**Sample name and photograph**

Grey Cut-Tex® PRO fabric TAR 1711068



Samples were conditioned for 24 hours at  $23 \pm 2^{\circ}\text{C}$  and  $50 \pm 5\% \text{RH}$  as required by the test procedure.

**Authorised by:**  
**Ben Killick – Laboratory Scientist**

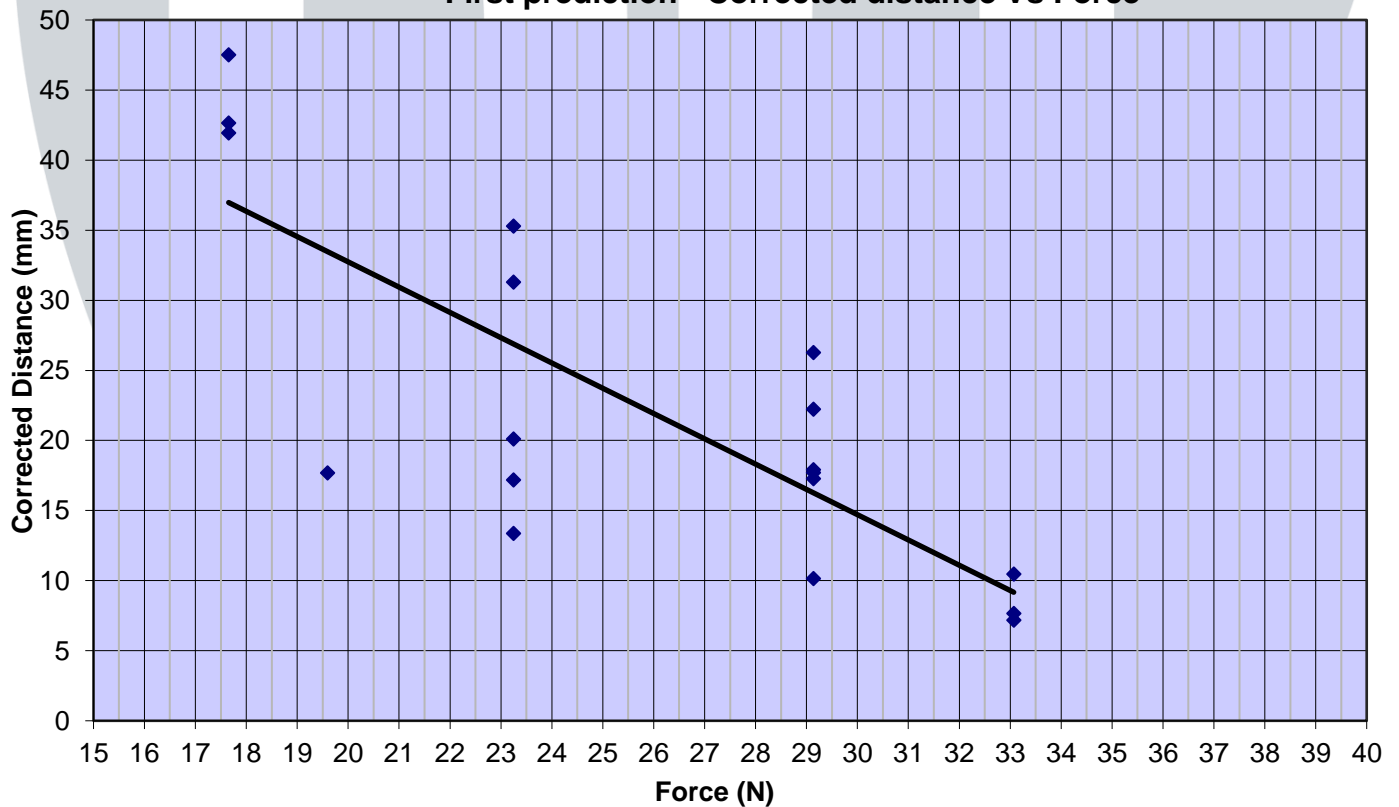
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**Results - BS EN ISO 13997:1999 Cut resistance**

Blade correction factor = 0.95

Mass (g)	Force (N)	Distance (mm)	Corrected distance (mm)
1184.90	23.25	18.09	17.19
1184.90	23.25	32.95	31.30
1184.90	23.25	14.06	13.36
1184.90	23.25	37.16	35.30
1184.90	23.25	21.17	20.11
1485.20	29.14	27.65	26.27
1485.20	29.14	10.67	10.14
1485.20	29.14	23.40	22.23
1485.20	29.14	18.19	17.28
1485.20	29.14	18.64	17.71
1485.20	29.14	18.86	17.92
1685.46	33.07	7.56	7.18
1685.46	33.07	11.02	10.47
1685.46	33.07	8.06	7.66
998.90	19.60	18.61	17.68
899.79	17.65	44.90	42.66
899.79	17.65	44.15	41.94
899.79	17.65	50.00	47.50

**First prediction - Corrected distance Vs Force**



Authorised by:

**Ben Killick – Laboratory Scientist**

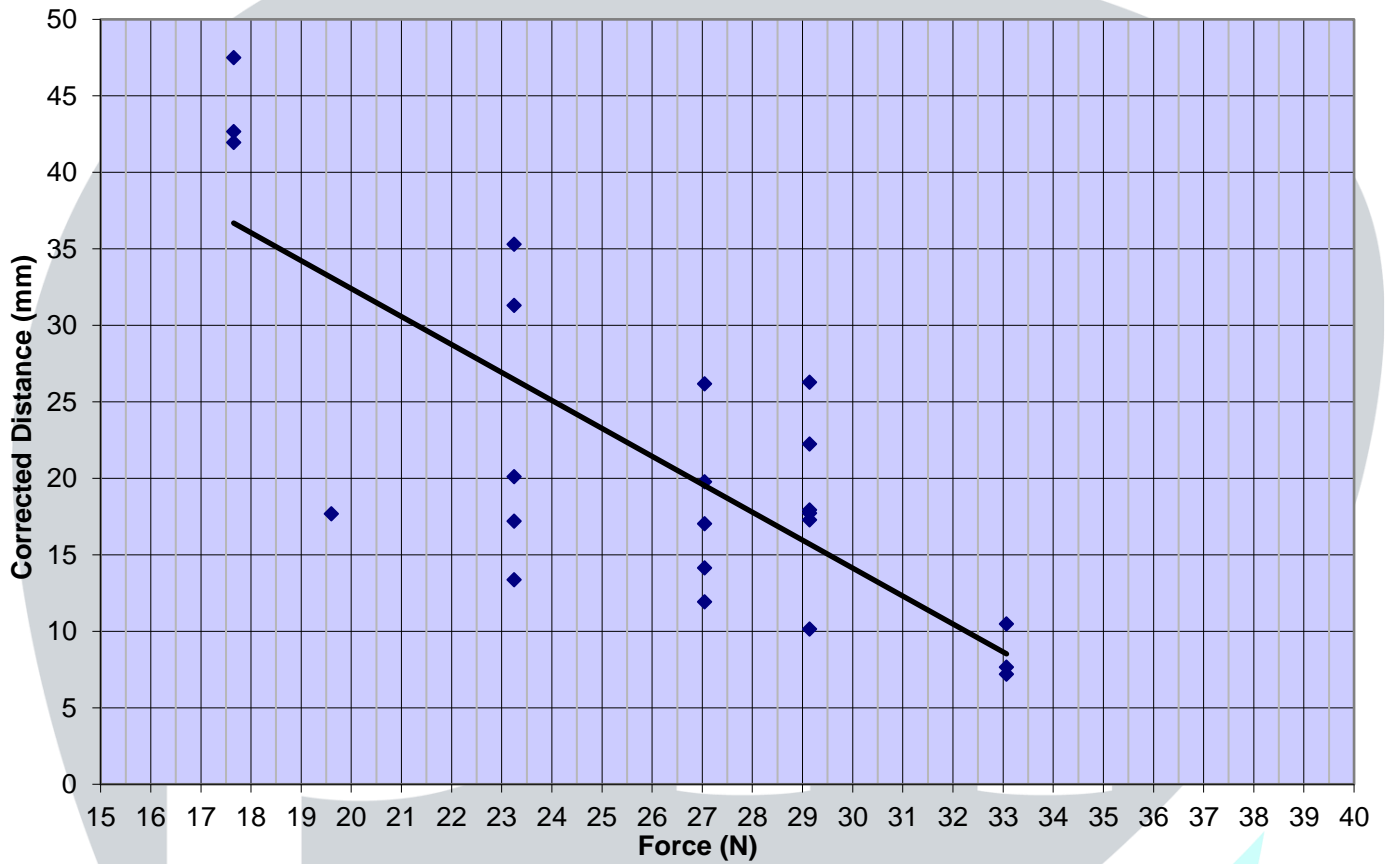
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Prediction of force required to cut through the sample in a 20 mm cutting stroke = **27.1 N**

Data using the 27.1 N prediction:

Mass (g)	Force (N)	Distance (mm)	Corrected distance (mm)
1378.62	27.05	14.89	14.15
1378.62	27.05	12.56	11.93
1378.62	27.05	27.56	26.18
1378.62	27.05	17.93	17.03
1378.62	27.05	20.80	19.76

**Final Prediction - Corrected distance Vs Force**



Final prediction of force required to cut through the sample in a 20 mm cutting stroke = **26.4 N**

**Performance level: E**

**\*\*\* END OF REPORT \*\*\***

**Authorised by:**  
**Ben Killick – Laboratory Scientist**