Polyco Healthline Technology Centre South Fen Rd, Bourne PE10 0DN, UK
Tel: +44 (0) 20 8443 9010 | Fax: +44 (0) 20 8443 9011
david.langridge@polycohealthline.com | Part of Polyco Healthline Ltd.
www.polycohealthline.com | Registered in England No. 09943100

Technical Report 1711068A
24th November 2017

FAO:
Lucy Porter, PPSS Ltd
Unit 1
Whitfield Buisness Park
Manse Lane
Knaresborough
North Yorkshire
HB5 8BS

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 22rd – 24th 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	5

Test Procedure

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

BS EN ISO 13997:1999 Requirements

	Level 4	Level 5
Cutting load	>13 N	>22 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 ± 2°C and 50 ± 5%RH as required by the test procedure.

Authorised by:

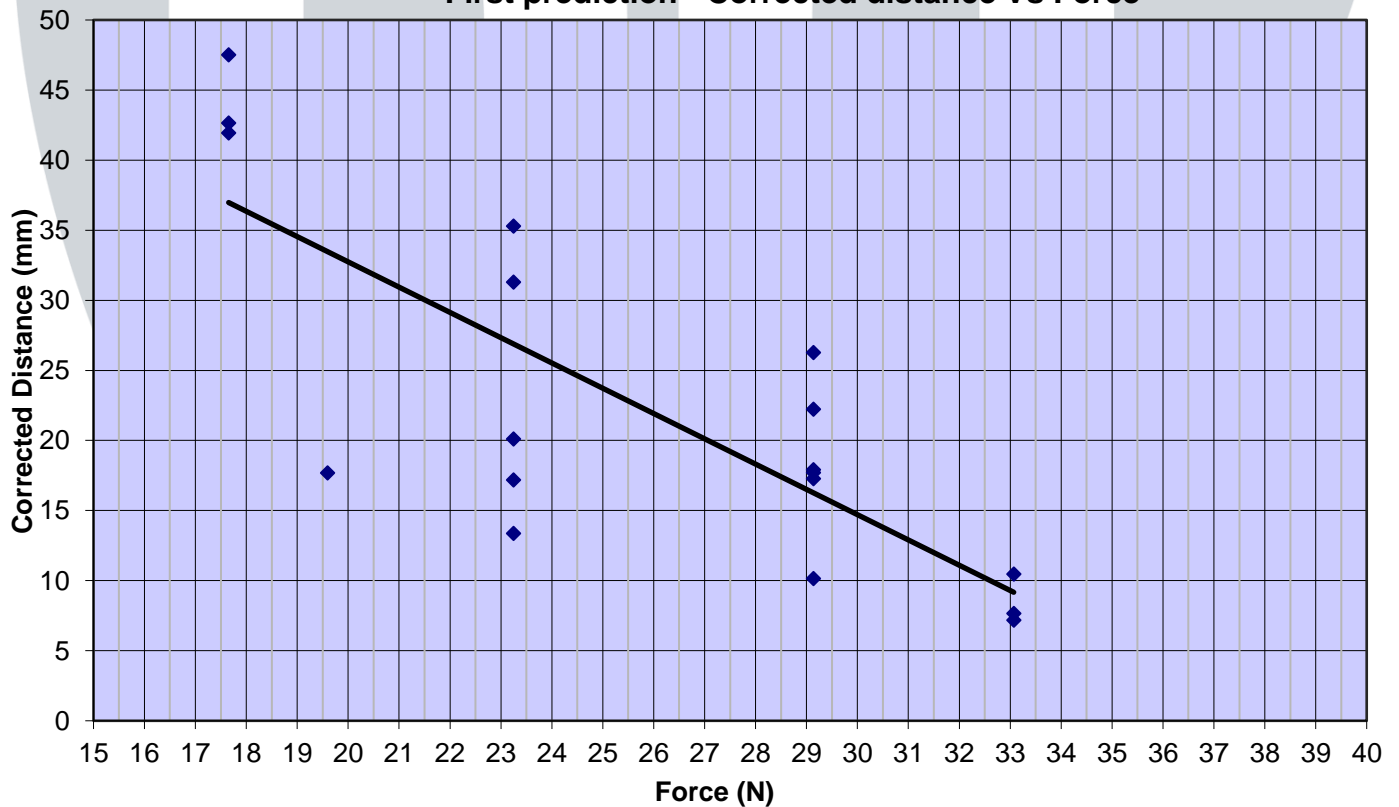**Ben Killick – Laboratory Scientist**

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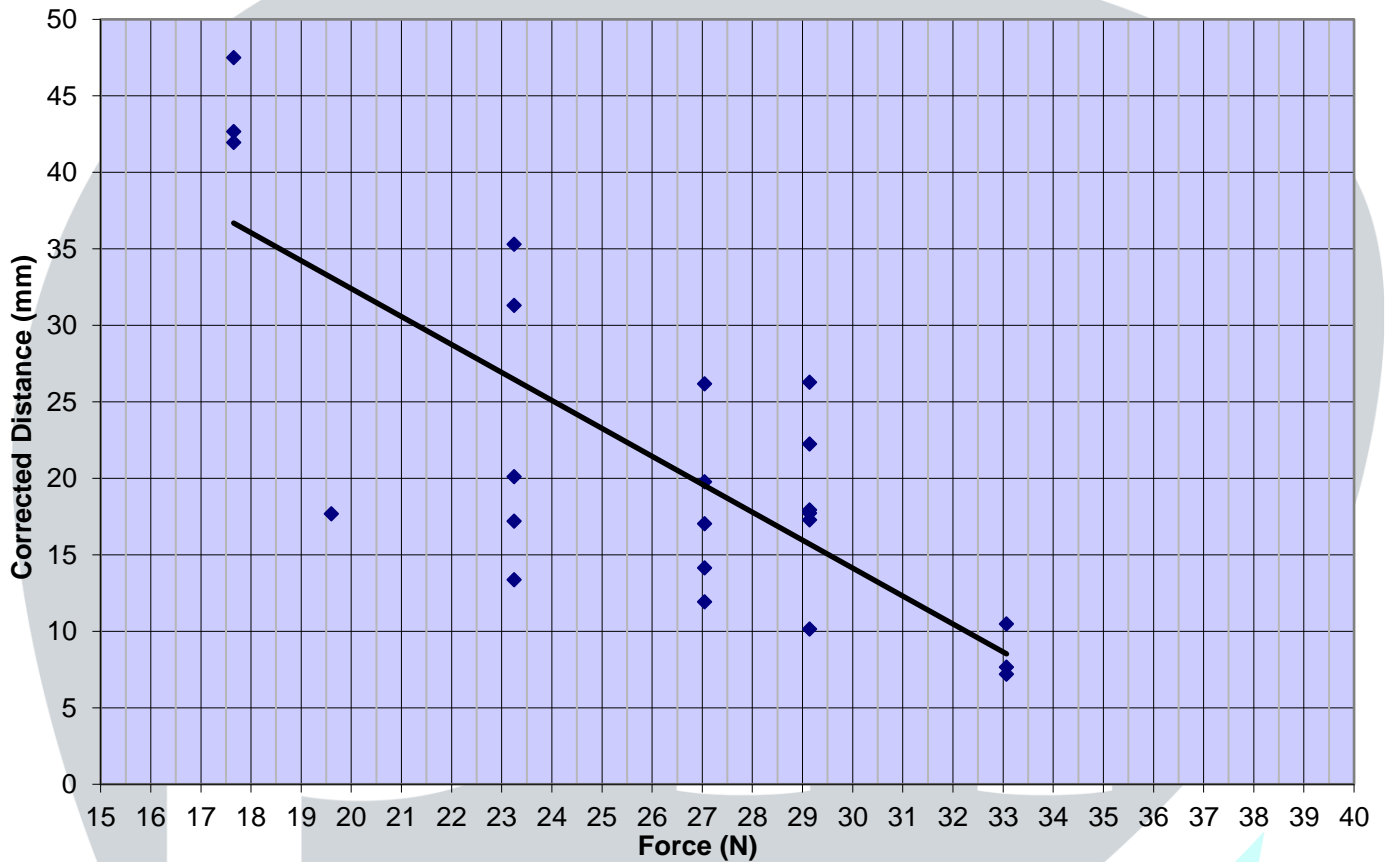
Prediction of force required to cut through the sample in a 20 mm cutting stroke = **27.1 N**

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: 5

** * END OF REPORT * * *

Authorised by:

Ben Killick – Laboratory Scientist