TEST LABORATORY

The test laboratory is accredited in compliance with DIN EN ISO/IEC 17025 by the Deutsche Akkreditierungsstelle GmbH. The accreditation is also valid for products of Regulation EU 2016/425. Test methods not included in the scope of accreditation are marked by a *.

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SÄCHSISCHES TEXTIL FORSCHUNGS INSTITUT e.V.

TEST REPORT

Order-No. STFI:	**P2026 0595.3; T235_26**
Order-No. Client:	26A0210 / 26A0211
Date of report:	April 27th; 2026
Responsible person:	Kermer, Mathias

Client:

BRIDGEHILL AS
Elveveien 34
3262 Larvik
NORWAY

Test order:

of:	March 10th; 2026
Order receipt:	March 12th; 2026
Test material received:	March 12th; 2026

stfi geprüft

Chairman of the Board
Dipl.-Ing.-Ök. Andreas Berthel

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Test item:

Marking:	Processing code:
Coated woven fabric from BRIDGEHILL AS, Elveveien 34 , 3262 Larvik, NORWAY; Project: P000562688 | Sample number: 25E1906 | CAR STANDARD 2 | Pyroxene fabric + silica, alumina, calcium oxide, and boron oxide fabric Color: black |Thickness: approx. 0.4 mm | Weight per square meter: (380–480) g/m²	Sample 01

Sampling was supplied by the issuer. The test department is not informed about the sampling procedure.

The comma is used to separator of decimal numbers

Test methods:

Testing atmosphere: (20±2) °C/ (65±4)) % humidity)

Pos.	Test method	Standard Test parameters
(1)	Determination of resistance to cutting by sharp objects to ISO 13997:1999-08	ISO 13997:1999-08 in conjunction with mit DIN EN 388:2019-03, 6.3
		Test equipment: TDM-100; Serial number: 10EO-0305 Test speed: (2,5 ±0.5) mm/s Test direction: 45 ° to machine direction of the material

Remarks:
The DIN EN 388:2019-03 standard was used at the customer's request. This sample material is not covered by the scope of the standard. The scope of the standard cover's gloves and arm protectors.

Performance levels for EN ISO 13997 to DIN EN 388:2019-03, table 2

Test	Performance levels					
	A	B	C	D	E	F
6.3 TDM: cut resistance [N]	2	5	10	15	22	30

Decision rule:
The classification of the performance level takes into account the expanded 95 % measurement uncertainty (subtraction of the measurement uncertainty). There will be no upgrade to a better performance level.

Test results:

SAMPLE 01

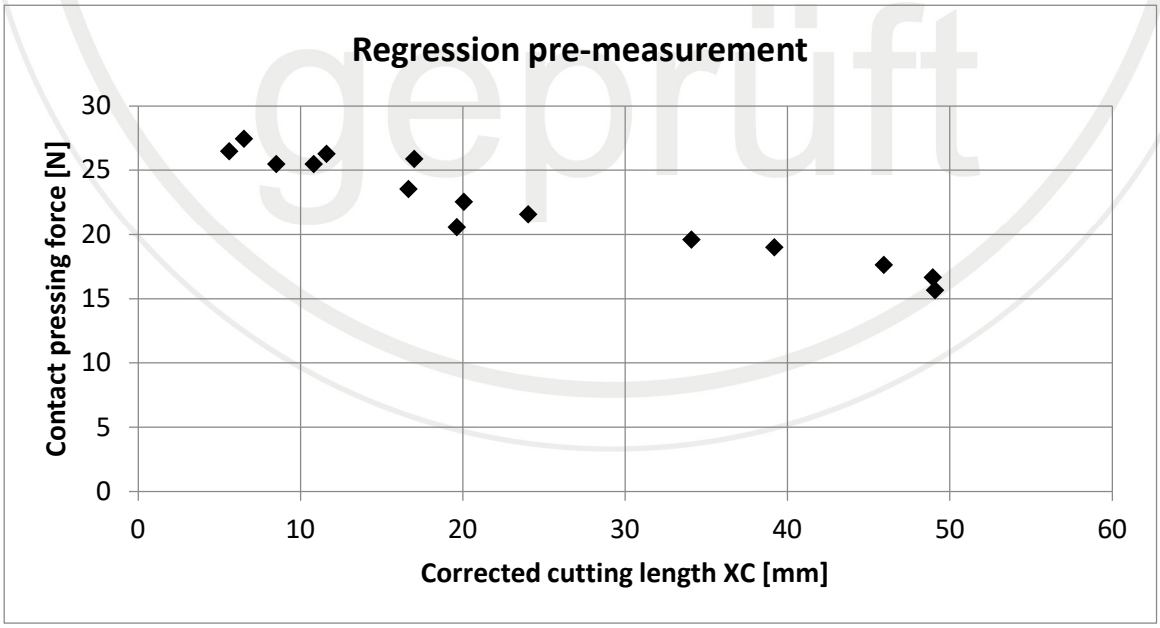
(1) Determination of resistance to cutting by sharp objects to ISO 13997:1999-08

Blade sharpness correction factor: C = 0,972
Batch of blades: Box 191 (R-2056P, VVC)
Backside was tested

Pre-Measurement

Sample 01				
Cutting stroke length range	**Weight on the pan [g]**	**Cutting length [mm]**	**Contact pressing force [N]**	**Corrected cutting length XC [mm]**
5 mm – 15 mm	1300	8,732	25,51	8,488
	1340	11,917	26,29	11,583
	1350	5,747	26,49	5,586
	1400	6,690	27,47	6,503
	1300	11,115	25,51	10,804
15 mm – 30 mm	1320	17,472	25,90	16,983
	1150	20,627	22,56	20,049
	1200	17,112	23,54	16,633
	1050	20,180	20,60	19,615
	1100	24,705	21,58	24,013
30 mm – 50 mm	1000	35,050	19,62	34,069
	900	47,230	17,66	45,908
	800	50,480	15,70	49,067
	850	50,337	16,68	48,928
	970	40,292	19,03	39,164

Evaluation Pre-Measurement:



Used function of correlation: Linear function with coefficient of correlation r^2=0,926

Calculated contact pressing force at a cutting length of 20 mm: 23,20 N

To used weight on the pan for a cutting length of 20 mm: 1182 g

1st Test series

Sample 01			
Weight on the pan [g]	Cutting length [mm]	Contact pressing force [N]	Corrected cutting length XC [mm]
1182	22,557	23,20	21,925
1182	14,442	23,20	14,038
1182	23,210	23,20	22,560
1182	22,435	23,20	21,807
1182	19,850	23,20	19,294
Mean value			**19,925**
Standard deviation			3,519
Coefficient of variation			17,7

Evaluation of 1st Test series:



Used function of correlation: Linear function with coefficient of correlation r^2=0,914

Calculated contact pressing force at a cutting length of 20 mm: 23,18 N +/-1,68N

The result of 23,18 (± 1,68) N corresponds to performance level D according to DIN EN 388:2019-03, Table 2.

Further information on the test procedures or results are available at the accredited testing laboratory and can be provided to the client upon request. The test results refer to the delivered specimen. This test report should not be published in parts. The testing period is defined as timeframe between receipt of the sample and issue date of test report. All materials received in connection with this order will be stored for a maximum period of six months unless agreed otherwise. Exempted from this practice are materials which will not be stored due to technical or safety-related reasons.

Dipl.-Eng. Mr. Marian Hierhammer
Head of Accredited Test Department

Mr. Mathias Kermer
Accredited Test Laboratory