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:	**P2025 1051-1; T414_25**
Order-No. Client:	unknown
Date of report:	June 17th; 2025
Responsible person:	Kermer, Mathias

Client:

MPA Dresden GmbH
Mr. Dr. - Ing. Andreas Meißner
Fuchsmühlenweg 6 F
09599 Freiberg
GERMANY

Test order:

of:	May 13th; 2025
Order receipt:	May 13th; 2025
Test material received:	May 15th; 2025

Test item:

Marking:	Processing code:
Coated fabric; 4 pieces, ProX 25E0350	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:

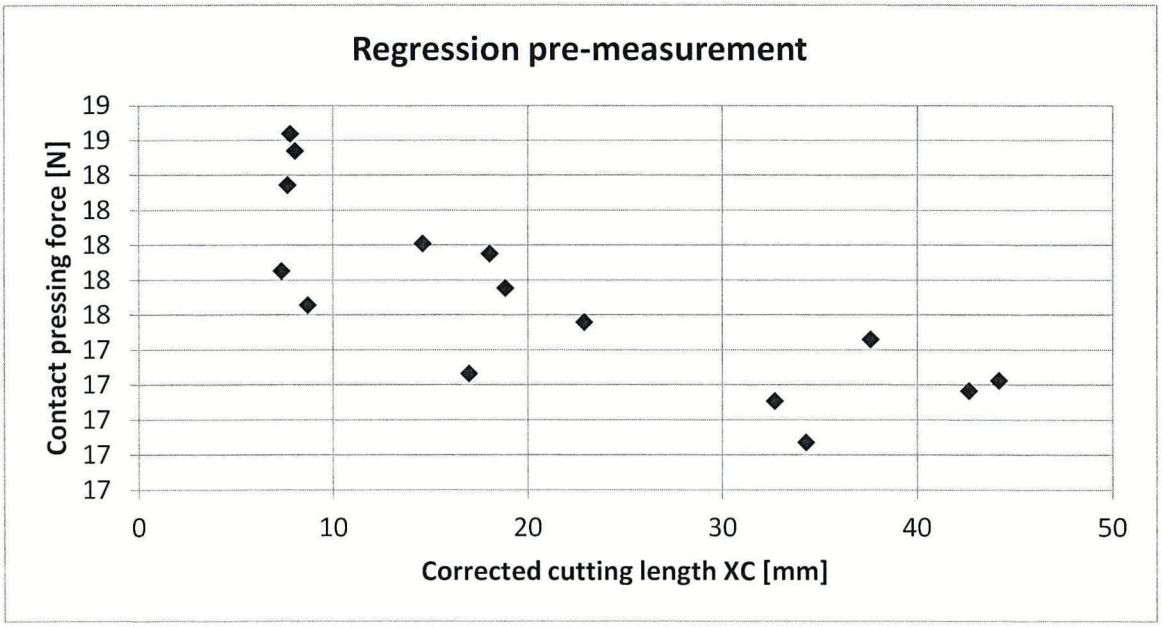
(1) Determination of resistance to cutting by sharp objects to ISO 13997:1999-08

Blade sharpness correction factor: C = 0,858
Batch of blades: Box 080 (R-2056P, VVC)

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	900	10,130	17,66	8,692
	950	9,082	18,64	7,792
	945	9,380	18,54	8,048
	910	8,575	17,85	7,357
	935	8,930	18,34	7,662
15 mm – 30 mm	918	17,025	18,01	14,607
	905	21,930	17,76	18,816
	915	21,027	17,95	18,041
	880	19,800	17,27	16,988
	895	26,675	17,56	22,887
30 mm – 50 mm	890	43,807	17,46	37,586
	860	39,937	16,87	34,266
	875	49,690	17,17	42,634
	878	51,497	17,23	44,184
	872	38,063	17,11	32,658

Evaluation Pre-Measurement:



Used function of correlation: Power function with coefficient of correlation r^2=0,674

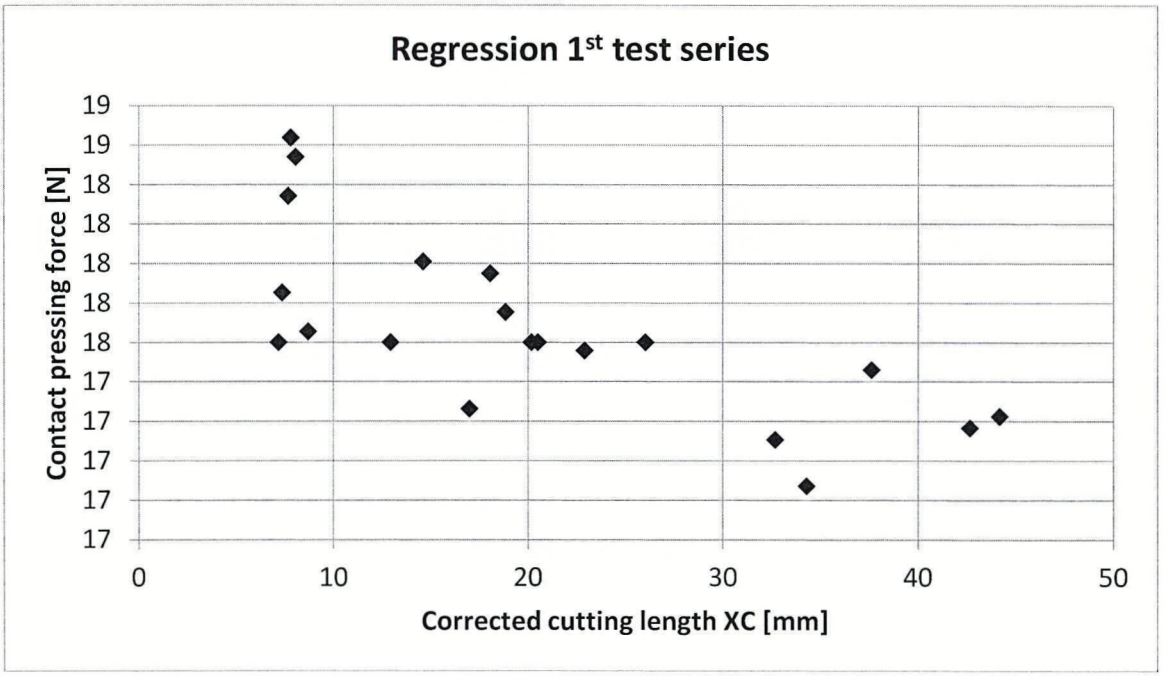
Calculated contact pressing force at a cutting length of 20 mm: 17,60 N

To used weight on the pan for a cutting length of 20 mm: 897 g

1st Test series

Sample 01			
Weight on the pan [g]	Cutting length [mm]	Contact pressing force [N]	Corrected cutting length XC [mm]
897	23,482	17,60	20,15
897	23,872	17,60	20,48
897	15,070	17,60	12,93
897	8,355	17,60	7,17
897	30,307	17,60	26,00
Mean value			**17,346**
Standard deviation			**7,344**
Coefficient of variation			**42,3**

Evaluation of 1st Test series:



Used function of correlation: Power function with coefficient of correlation r^2=0,563

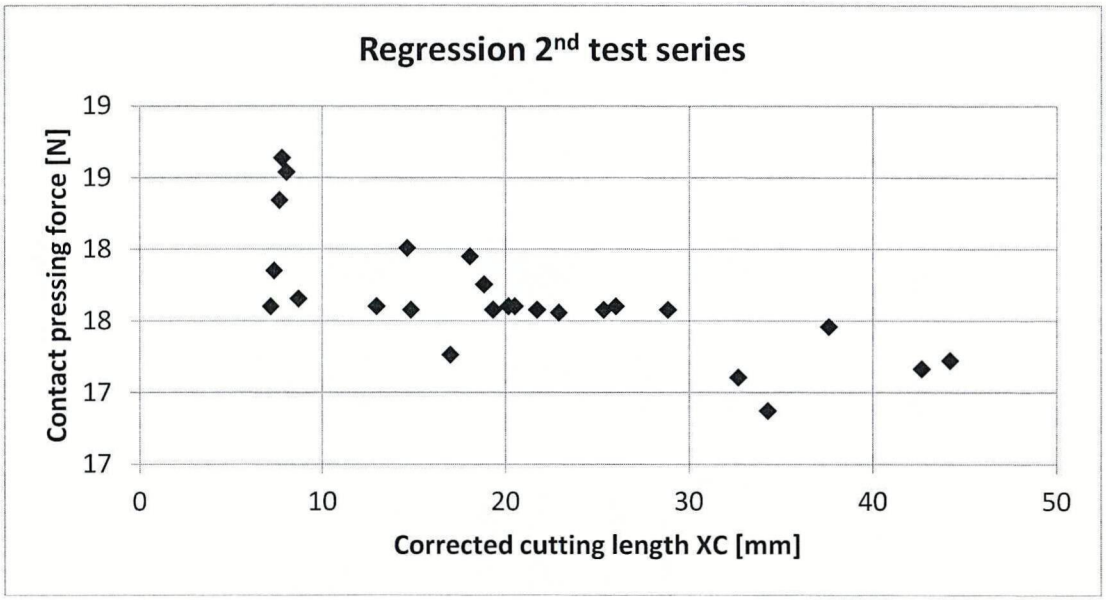
Calculated contact pressing force at a cutting length of 20 mm: 17,58 N

To used weight on the pan for a cutting length of 20 mm: 896 g

2st Test series

Sample 01			
Weight on the pan [g]	Cutting length [mm]	Contact pressing force [N]	Corrected cutting length XC [mm]
896	33,612	17,58	28,84
896	25,295	17,58	21,70
896	17,26	17,58	14,81
896	29,547	17,58	25,35
896	22,507	17,58	19,31
Mean value			**22,00**
Standard deviation			**5,41**
Coefficient of variation			**24,6**

Evaluation of 2st Test series:



Used function of correlation: Power function with coefficient of correlation r^2=0,546

Calculated contact pressing force at a cutting length of 20 mm: 17,59 N +/- 0,49 N

The result of 17.59 (± 0.49) 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.

i.V. l.

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

stfi geprüft

Mr. Mathias Kermer
Accredited Test Laboratory