Hochschule Hof - University of Applied Sciences
Staatliches Prüfamt für das Textilgewerbe

Testing Laboratory of Hochschule Hof

accredited according to DIN EN ISO /IEC 17025:2018

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Services Directory

updated November 2026

A) Mechanical and Technological Research			**sample quantity**
1.	**Imprints of surfaces**		DIN A3
2.	**Burning behavior**		
2.1	Burning behavior of building materials 5 samples (edge or surface ignition)	DIN 4102-1 building material class B2	1,5 m²
2.2	Ignition by a burner 5 samples (edge or surface ignition)	DIN 53438-2 or -3	1 m x full width
2.3	Automobile interior (5 samples)	DIN 75200 (FMVSS 302)	1 m x full width
2.4	Automobile interior 5 samples lenght, crosswise each	Guideline 95/28EG Appendix 4 ECE 118-Annex 6	1 m x full width
2.5	Ignitability of upholstered furniture Ignition source: smouldering cigarette	DIN EN 1021 T1	1,5 m x full width
2.6	Burning behavior of curtains and drapes	DIN EN 1102	2 m x full width
2.7	Measurement of flame spread properties vertically oriented specimen (edge or surface ignition)	DIN EN ISO 6941	2 m x full width
2.8	Protection against heat and flame (protective clothing)	DIN EN ISO 15025	1 m x full width
2.9	Determintion of inflamability vertically oriented specimen (edge or surface ignition)	DIN EN ISO 6940	2 m x full width
3.	**Thickness**		
3.1	Thickness of textile fabrics	DIN EN ISO 5084:1996-10[Akk]; DIN EN ISO 9073-2 method A normal nonwovens	0,3 m xfull width
3.2	incl. compressability	DIN 53885	
4.	**Differential Scanning Calorimetry**	set temperature, melding point	0,1 m x full width

[Akk] akkreditiertes Prüfverfahren

5.	**Twisting**		
5.1	Untwist procedure	DIN EN ISO 2061	1 bobbin á 50 m
5.2	Slippage method		
6.	**Electrostatic behavior**		
6.1	Determination of electrical resistance	DIN 54345 T1	0,5 m x full width
6.2	Measurement of surface resistivity	DIN EN 1149-1	0,5 m x full width
6.3	Measurement of electrical vertical resistanc	DIN EN 1149-2	0,5 m x full width
7.	**Thread count wovens**	DIN EN ISO 7211-2	50 x 50 cm
8.	**Diameter of fibers** Ocular micrometer - synthetic fibers		5 g
9.	**Fiber fineness** Vibroscope method	DIN EN ISO 1973	20 g
10.	**Fiber length** Single fiber measurement	DIN 53808-1	20 g
11.	**Mass per unit area**	DIN EN 12127: 1997-12[Akk]; DIN EN ISO 9073-1	0,5 m x full width 0,5 m x full width
12.	**Yarn count**		
12.1	Skein method	DIN EN ISO 2060	1 bobbin
12.2.	Short length method	DIN 53830 T3	60 x 60 cm
12.3	Rate of yarn length	DIN 53862	60 x 60 cm
12.4	Number of filaments		10 m
13.	**Odor test**	VDA 270	50 x 50 cm
14.	**Weave of fabric**		DIN A4
15.	**Weight portion warp and weft**	DIN 53856	DIN A4
16.	**Hairiness of yarns**	comparison test	1 bobbin
17.	**Infrared spectrum**		
18.	**Hook and loop fastener test**	VDA 230-210	0,5 m x full width
19.	**Crease resistance** Cylinder method	ENKA; method 3061 A	1 m x full width
20.	**Crimp parameters** Number of crimps of single fibers	ASTM D3937-12 Option 1	20 g
21.	**Air Permeability**		
21.1	Air permeability of textile fabrics	DIN EN ISO 9237: 1995-12[Akk]	1 m x full width
21.2	Vertical air resistance spacer fabrics	DIN 60022-2	1 m x full width
22.	**Mesh density**	DIN EN 14971	50 x 50 cm

23.	**Dimensional change**	DIN EN ISO 5077: 2008-04[Akk]	1 m x full width resp. 1-2 fabric
23.1	Laundring and drying	DIN EN ISO 6330: 2022-03[Akk] drying method A, C, F[akk]	
23.2	Heating (hot air)	internal method	0,7 m x full width
24.	**Upholstery fabrics for living area**	DIN EN 14465	
24.1	Tensile strength	DIN EN ISO 13934-1: 2013-08[Akk]	1 m x full width
24.2	Tear strength	DIN EN ISO 13937-3: 2000-06[Akk]	1 m x full width
24.3	Slippage resistance	DIN EN ISO 13936-2	1 m x full width
24.4	Abrasion resistance	DIN EN ISO 12947-2: 2017-03[Akk]	0,3 m x full width
24.5	Pilling behavior	DIN EN ISO 12945-2: 2021-04[Akk]	0,5 m x full width
24.6	Light fastness	DIN EN ISO 105-B02 (method 2)	DIN A5
24.7	Rubbing fastness	DIN EN ISO 105-X12: 2016-11[Akk]	DIN A4
25.	**Slippage behavior**	DIN EN ISO 13936-2 + 13936-1	1 m x full width
26.	**Pilling, Martindale method**	DIN EN ISO 12945-2: 2021-04[Akk] DIN EN ISO 12945-4: 2021-04[Akk]	0,5 m x full width
27.	**Abrasion tests**		
27.1	Martindale method		
27.1.1	Specimen breakdown	DIN EN ISO 12947-2: 2017-03[Akk]	0,3 m x full width
27.1.2	Mass loss	DIN EN ISO 12947-3	0,3 m x full width
27.1.3	Appearance change	DIN EN ISO 12947-4	0,3 m x full width
27.1.4	Abrasion resistance of protective clothing	DIN EN 530	0,3 m x full width
27.1.5	Abrasion resistance of protective gloves	DIN EN 388	0,3 m x full width
27.1.6	Abrasion resistance of coated textiles	DIN EN ISO 5470-2	0,3 m x full width
28.	**Shrinkage of yarns**		
28.1	Water	according to replaced DIN 53866-T2	1 bobbin
28.2	Hot air	according to replaced DIN 53866-T3	1 bobbin
28.3	Hot air monofilament	according to DIN EN 13844	1 bobbin
29.	**Protective clothing**	DIN EN 388	
29.1	Abrasion resistance		0,3 m x full width
29.2	Cut resistance	only section 6.2	0,3 m x full width
29.3	Force breaking through	section 6.5	0,3 m x full width
29.4	Tear strength		0,3 m x full width
30.	**Spray test**	AATCC 22, DIN EN ISO 4920	0,3 m x full width
31.	**Staff-Test (fiber abrasion Zweigle G555)**		1 bobbin
32.	**Stress-strain characteristic in compressi**	DIN EN ISO 3386-1	0,5 m x full width
33.	**Static punchure test CBR test**	DIN EN ISO 12236	1 m x full width
34.	**Delamination strength**		
34.1	Delamination of fusible interlinings	DIN 54310	1 m x full width
34.2	Separating layers of laminated fabrics	DIN 53530, according to replaced DIN 53357A	1 m x full width
35.	**Irregularity**		
	Toennessen board (visual board for yarns and twists)		1 bobbin

36.	**Resistance to water penetration**	DIN EN ISO 811	0,5 m x full width
37.	**Tear strength**		
37.1	Trouser-shaped tear test	DIN EN ISO 13937-2: 2000-06[Akk]	1 m x full width
37.2	Wing-shaped tear test	DIN EN ISO 13937-3: 2000-06[Akk]	1 m x full width
37.3	Tongue-shaped tear test	DIN EN ISO 13937-4	1 m x full width
37.4	Trapezoid tear test	DIN 53859-5	1 m x full width
37.5	Trapezoid tear test plastic foils	DIN EN 17679	1 m x full width
37.6	Tongue-, trouser-shaped tear test	DIN EN ISO 4674-1	1 m x full width
37.7	Tear strength protective clothing	DIN EN 388	0,3 m x full width
37.8	Tear strength nonwovens	DIN EN ISO 9073-4	1 m x full width
38.	Bursting properties	DIN EN ISO 13938-2	1 m x full width
39.	**Elastic behavior**		
39.1	Yarns		
39.1.1	Repeated tension stresses between constant elongation limits	DIN 53835-2	1 bobbin
39.1.2	Single strain between constant elongation limits	DIN 53835-3	1bobbin
39.2	Woven and knitted fabrics		
39.2.1	Single strain between constant elongation limits	DIN 53835-13	1 m x full width
39.2.2	statical and irreversible elongation	according to replaced DIN 53360	1 m x full width
40.	**Tensile tests**		
40.1	**Yarn**		
40.1.1	Tensile strength and elongation	DIN EN ISO 2062	1 bobbin
40.1.2	Knot tensile test	DIN 53842-1	1 bobbin
40.1.3	Loop tensile test	DIN 53843-1	1 bobbin
40.2	**Cord**	according to DIN EN ISO 2062 without elongation	30 m
40.3	**Woven fabrics**		
40.3.1	Strip method	DIN EN ISO 13934-1: 2013-08[Akk]	1 m x full width
40.3.2	Grab method	DIN EN ISO 13934-2	1 m x full width
40.3.3	Seam tensile test	DIN EN ISO 13935-1, -2	1 m x full width
40.4	**Nonwovens**	DIN EN ISO 9073-3: 2025-10[Akk]	1 m x full width
40.5	**Terry fabrics resistance to pile loop extraction**		0,3 m x full width
40.6	**Fibers**	DIN EN ISO 5079 dry	20 g

B) Wet-chemical examinations

1.	**Extraction of attandant materials, quantitative in organic solvents soluble materials**	DIN 54 278-T1	25 g
2.	**Fiber analysis, qualitatively by microscope**		20 g
3.	**Fiber analysis, quantitatively, chemical analysis including the qualitative test, binary mixture**		
3.1	Method using acetone	DIN EN ISO 1833-3	
3.2	Method using formic acid	DIN EN ISO 1833-7	
3.3	Method using formic acid and zinc chloride	DIN EN ISO 1833-6	
3.4	Method usind dichloromethane	internal method for Copolyester	
3.5	Method using dimethylacetamide	DIN EN ISO 1833-20	
3.6	Method using dimethylformamide	DIN EN ISO 1833-12	
3.7	Method using potassium hydroxide	DIN 54204	
3.8	Method using hydrochloric acid	DIN 54221	
3.9	Method using sulfuric acid	DIN EN ISO 1833-11	
3.10	Method using xylene	DIN EN ISO 1833-16, No. 13 EG guideline	
4.	**Fiber analysis, quantitatively by mechanical separation including the qualitative test**		20 g
5.	**Dimensional change Laundring and drying**	DIN EN ISO 5077: 2008-04[Akk] DIN EN ISO 6330: 2022-03[Akk] drying procedure A, C, F[Akk]	1 m x full width resp. 1-2 fabrics
6.	**Oil repellency**	AATCC 118 (3M-Test), DIN EN ISO 14419	0,5 m x full width
7.	**pH value**	DIN EN ISO 3071	10 g
8.	**Absorptivity**		
8.1	Velocity of soaking water	DIN 53924	0,5 m x full width
8.2	Water absorption	DIN 53923	0,5 m x full width
8.3	TEGEWA drop test		0,3 m x full width
9.	**Sizing content**	DIN 54285	20 g
10.	**Determination of melding point**	DIN EN ISO 3146	
11.	**Spray test**	AATCC 22, DIN EN ISO 4920	0,3 m x full width
12.	**Laundring** Domestic washing and drying procedures	DIN EN ISO 6330: 2022-03[Akk] drying procedure A, C, F[Akk]	1 fabric
13.	**Water and stain protection**		
13.1	Spray test	AATCC 22, DIN EN ISO 4920	0,3 m x full width
13.2	Water drop test according to Dupont		0,3 m x full width
13.3	Oil repellency	AATCC 118, DIN EN ISO 14419	0,3 m x full width

C) Color fastness

1.	**Fastness to spotting: alkali**	DIN EN ISO 105-E06	DIN A4
2.	**Fastness to hot pressing** (dry, humid, wet)	DIN EN ISO105-X11	DIN A4
3.	**Fastness to chlorinated water**	DIN EN ISO 105-E03	DIN A4
4.	**Fastness to bleaching: hypochlorite** mild	DIN 54034	DIN A4
5.	**Fastness to bleaching: hypochlorite** severe	DIN EN 20105-N01	DIN A4
6.	**Fastness to light**	Xenotest ALPHA LM High Energy	
6.1	to artificial light	DIN EN ISO 105-B02	DIN A5
6.2	to artificial light at high temperature	DIN EN ISO 105-B06	DIN A5
6.3	to light wetted with artificial perspiration	DIN EN ISO 105-B07	DIN A4
7.	**Fastness to organic solvents**	DIN EN ISO 105-X05	DIN A4
8.	**Fastness to sea water**	DIN EN ISO 105-E02	DIN A4
9.	**Fastness to rubbing**		
9.1	Fastness to rubbing, dry and wet	DIN EN ISO 105-X12: 2016-11[Akk]	2 x DIN A4
9.2	Fastness to rubbing, Perchlorethylene, Acetone	DIN EN ISO 105-D02	2 x DIN A4
10.	**Fastness to spotting: acid**	DIN EN ISO 105-E05	DIN A4
11.	**Fastness to perspiration**	DIN EN ISO 105-E04,	DIN A4
12.	**Fastness to sublimation in storage**	DIN 54056	DIN A4
13.	**Fastness to dry heat**	DIN EN ISO 105-P01	DIN A4
14.	**Fastness to dry cleaning**	DIN EN ISO 105-D01	DIN A4
15.	**Fastness to washing**		
15.1	Fastness to washing, domestic and	DIN EN ISO 105-C06, -C08, -C09	DIN A4
15.2	Fastness to washing with soap	DIN EN ISO 105-C10	DIN A4
16.	**Fastness to water**	DIN EN ISO 105-E01	DIN A4
17.	**Fastness to water spotting**	DIN EN ISO 105-E07	DIN A4

Drawing up expert reports for claims and complaints