D-LAB

Specifications

Your Partner for textile testing
and quality assurance

DLAB
TEXTILE LABORATORY

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D-LAB is your neutral partner for reliable quality management and evaluation in all textile areas. Producers of home textiles, furnishing fabrics, clothing, technical fabrics, as well as specialty retailers profit from our many years of experience in the field of textile production and evaluation.

D-LAB is your partner in monitoring product properties as well as for the creation of item specifications.

D-LAB tests the products and product data from your supplier and helps in the case of a high complaint rate.

D-LAB offers you its extensive technical laboratory, physical and chemical testing, and will issue the reports accordingly.

D-LAB is equipped with the most modern measuring and testing machines and offers, amongst many other tests, the following:

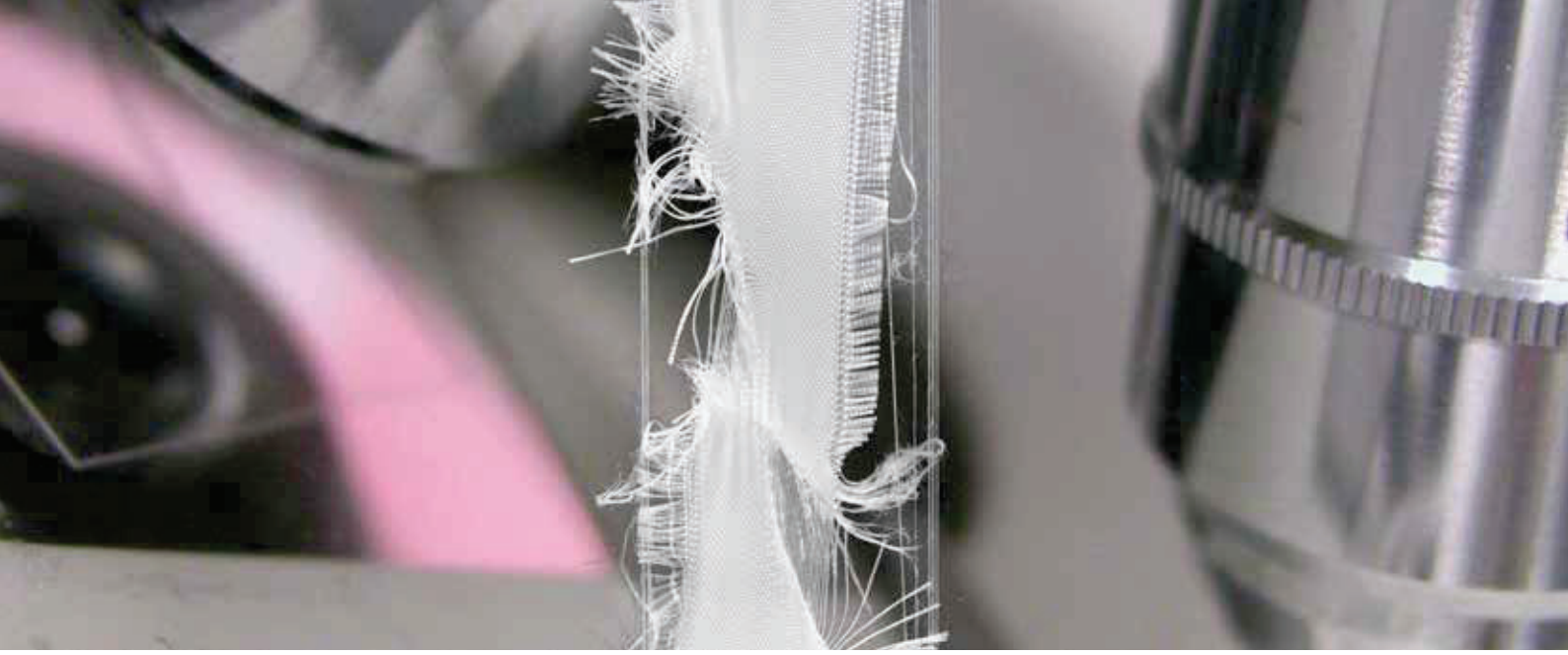
- burning behaviour
- abrasion resistance
- pilling
- tear strength and seam slippage resistance
- permeability of fabrics to air or water
- behaviour of dimensional change
- colour fastness

Our services at a glance:

- physical evaluations
- chemical evaluations
- elaborate consultation
- issuing of product specifications
- issuing of test reports
- training / seminars

Accredited according to DIN EN ISO/IEC 17025:2018
The accreditation applies for the methods listed in the annex to the certificate D-PL-17323-01-00.

Certified according to DIN EN ISO 9001:2015



Fibres | Threads

Testings	Sample size	Note
Determination of linear density of single and plied yarns – short length method DIN 53830-3	40cm x 40cm	
Determination of linear density of elasto-yarns and core spun yarns – short length method DIN 53830-4	40cm x 40cm	
Determination of linear density by the rope method DIN EN ISO 2060	1 Coil	
Filament count (up to 150 filaments for each yarn)	10m	
Filament count (more than 151 filaments for each yarn)	10m	
Determination of single-end breaking force & elongation at break DIN EN ISO 2062	1 Coil	
Determination of twist in yarns DIN EN ISO 2061	1 Coil	
Yarn types (staple fibre, filament yarn)	DIN A4 or yarn section	
Yarn types (ring-spun yarn, open-end yarn, worsted, carded, etc.)	DIN A4 or yarn section	
Yarn construction (single yarn, composite yarn, etc.)	DIN A4 or yarn section	
Fibre melting point according to koflerbank (up to 260°C) D-LAB Standard	DIN A5 or yarn section	
Determination of fibre length D-LAB Standard	DIN A4 or yarn section	
Knot tensile test for single and plied yarns DIN 53842-1	1 Coil	
Loop test for single and plied yarns DIN 53843-1	1 Coil	
Yarn – boil shrinkage D-LAB Standard	1 Coil	
Yarn – dry air shrinkage (filament yarn) D-LAB Standard	1 Coil	
Yarn - Hot air shrinkage acc. to DIN EN ISO 14621*	1 Coil	
Cold water shrinkage for textured yarn D-LAB Standard	1 Coil	
Intermingling point D-LAB Standard	5 m	

Fabrics | Woven and knitted Design features

Testings	Sample size	Note
Weaves, determination of fabric construction DIN 61101-1	DIN A4	
Determination of width and length DIN EN 1773	1 m x total width	
Area weight DIN EN 12127	1 m x total width	**Accredited test**
Area weight FED STD 191A method 5041	1 m x total width	
Determination of number of threads per unit length – warp DIN EN 1049-2	40 cm x 40 cm	
Determination of number of threads per unit length – weft DIN EN 1049-2	40 cm x 40 cm	
Determination of threads per unit - warp & weft acc. to ISO 7211-2	40 cm x 40 cm	
Determination of threads per unit - warp & weft FED STD 191A method 5050	40 cm x 40 cm	
Determination of number of stitches per unit length and unit area DIN EN 14971	40 cm x 40 cm	
Contraction of yarns in fabrics D-LAB Standard	DIN A4	
Determination of thickness of textiles and textile products DIN EN ISO 5084	20 cm x total width	
Determination of thickness of glass fabrics acc. to ISO 4603	20 cm x total width	

Fabrics | Woven and knitted Strength tests

Testings	Sample size	Note
Tear strength, strip method DIN EN ISO 13934-1	1 m x total width	**Accredited test**
Tear strength, grab method DIN EN ISO 13934-2	1 m x total width	
Tear strength (fabrics coated with rubber or plastics) DIN EN ISO 1421	1 m x total width	**Accredited test**
Determination of tensile properties – for roof waterproofing DIN EN 12311-1	1 m x total width	
Determination of tensile properties – for roof waterproofing DIN EN 12311-2, Process A	1 m x total width	
Determination of force and elongation, strip method ASTM D 5035-95	1 m x total width	
Seam slippage resistance DIN EN ISO 13936-2	1 m x total width	**Accredited test**
Seam tensile properties of fabrics and made-up textile articles DIN EN ISO 13935-1	1 article of clothing 1 m x total width	
Seam tensile properties of fabrics and made-up textile articles – grab method DIN EN ISO 13935-2	1 article of clothing 1m x total width	
Tear properties of fabrics – trouser-shaped test DIN EN ISO 13937-2	1m x total width	**Accredited test**
Tear properties of fabrics – wing-shaped test DIN EN ISO 13937-3	1m x total width	**Accredited test**
Tear properties of fabrics – trapezoid test DIN 53859-5	1 m x total width	**Accredited test**
Tear properties of fabrics – tongue-shaped DIN EN ISO 13937-4	1 m x total width	
Tear properties of fabrics – testing of plastics films – trapezoidal test DIN 53363	1 m x total width	

Testings	Sample size	Note
Tear resistance of coated fabrics - tongue-shaped test acc. to DIN EN ISO 4674-1 Process A	1 m x total width	
Tear resistance of coated fabrics - trouser-shaped test acc. to DIN EN ISO 4674-1 Process B	1 m x total width	
Tear properties of fabric ASTM D 2261 - 96	50 cm x total width	
Tear properties of fabric – nonwoven DIN EN ISO 9073-4	1 m x total width	
Tear properties of fabric - wing-shaped test AS 2001.2.10	1 m x total width	
Tear properties of fabrics - trouser-shaped test FED STD 191A method 5134	1 m x total width	
Tear properties of fabrics FED STD 191A method 5104	1 m x total width	
Tear strength, artificial leather DIN 53354	1 m x total width	
Determination of tear load – single edge tear DIN EN ISO 3377-1	cowhide	
Determination of tear load – double edge tear DIN EN ISO 3377-2	cowhide	
Blocking resistance DIN EN ISO 5978	1 m x total width	
Determination of coating adhesion DIN EN ISO 2411	1 m x total width	
Delamination of fusible interlinings from upper fabric, mechanical delamination test – DIN 54310*	1 m x total width	
Determining the edgecomb resistance of woven fabrics ASTM D 6479-02	1 m x total width	
Explanation of the yarn pulling out resistance D-LAB-Standard	1 m x total width	
Determination of the elongation under load and the residual deformation DIN EN 15977	1 m x total width	

Fabrics | Woven and knitted Performance characteristics

Testings	Sample size	Note
Abrasion resistance – Martindale: specimen breakdown DIN EN ISO 12947-2	30 cm x total width	
Abrasion resistance – Martindale: specimen breakdown DIN EN ISO 12947-2 further 5.000 revs.		
Abrasion resistance – Martindale: determination of mass loss DIN EN ISO 12947-3	30 cm x total width	
Abrasion resistance – Martindale: assessment of appearance change DIN EN ISO 12947-4	30 cm x total width	
Abrasion resistance - Martindale: dry coated surface acc. to DIN EN ISO 5470-2	30 cm x total width	
Abrasion resistanca – rotary abrasion test (Schopper) DIN 53863-2 up to 500 revs.	30 cm x total width	
Abrasion resistanca – rotary abrasion test (Schopper) DIN 53863-2 further 100 revs.	30 cm x total width	
Pilling test – Martindale DIN EN ISO 12945-2 (up to 1.000 revs.)	30 cm x total width	
Pilling test – Martindale DIN EN ISO 12945-2 (2.000 revs.)	30 cm x total width	
Pilling test – Martindale DIN EN ISO 12945-2 (5.000 revs.)	30 m x total width	
Pilling test - Martindale acc. to DIN EN ISO 12945-2 (up to 7.000 revs.)	30 cm x total width	
Pilling test – Martindale DIN EN ISO 12945-2 (each further 1.000 revs.)	30 cm x total width	

*in accordance

Testings	Sample size	Note
Dimensional change in washing and drying DIN EN ISO 6330 + DIN EN ISO 5077 + DIN EN ISO 3759	70 cm x 70 cm	Accredited test
Dimensional change in washing and drying DIN EN ISO 6330 + DIN EN ISO 5077 + DIN EN ISO 3759	1 article of clothing	Accredited test
Dimensional change – dry cleaning, professional care DIN EN ISO 3175-1* + DIN EN ISO 3759	1 article of clothing	
Dimensional change – hand wash D-LAB Standard	70 cm x 70 cm	
Dimensional change – ironing DIN 53894-1* + DIN EN ISO 3759	70 cm x 70 cm	
Additional ironing and measure D-LAB Standard		
Dimensional change – dry cleaning, professional care DIN EN ISO 3175-1* + DIN EN ISO 3759	70 cm x 140 cm	
Dimensional change – cold water D-LAB Standard	70 cm x 70 cm	
Dimensional change – dry air D-LAB Standard	70 cm x 70 cm	
Standard washing DIN EN ISO 6330	1 article	Accredited test
Standard washing with tumbler dry DIN EN ISO 6330	1 article	Accredited test
Dry cleaning	1 article	
Determination of the permeability of fabrics to air DIN EN ISO 9237	50 cm x total width	
Determination of permeability of fabrics to air FED STD 191A method 5450	50 cm x total width	
Hydrostatic pressure test DIN EN ISO 811 (up to 2.000 mbar)	1 m x total width	
Hydrostatic pressure test AATCC 127 (up to 2.000 mbar)	1 m x total width	
Spray test – resistance to surface wetting DIN EN ISO 4920	50 cm x total width	
Spray test AATCC 22	50 cm x total width	
Oil resistance DIN EN ISO 14419	40 cm x 30 cm	
Oil repellency – hydrocarbon resistance test AATCC 118	40 cm x 30 cm	
Absorbency Drop test TEGEWA	DIN A 4	
Material distortion DIN EN ISO 13015*	50 cm x total width	
Transverse distortion AATCC 179*	1,5 m x total width	
Determination of suction speed DIN 53924	50 cm x total width	
Determination of crease resistance – dry sample DIN 53890	20 cm x total width	
Electrostatic behaviour DIN 54345-1	50 cm x total width	Testing by partner laboratories
Detection of optical brighteners by means of UV light D-LAB Standard	1 test item	

*in accordance

Testings	Sample size	Note
Permanent bending strength – Flexometer method DIN EN ISO 32100 up to 15.000 tours	30 cm x total width	
Permanent bending strength - Flexometer process acc. to DIN EN ISO 32100 every further 5000 tours of a measurement	30 cm x total width	
Antiseptic resistance incl. evaluation after 24 h D-LAB Standard with consideration of DIN EN ISO 2812	0,5 m	
Media resistance incl. evaluation after 24 h acc. to DIN EN ISO 2812-4	0,5 m	
Hydrolysis | 7 days DIN EN 12280-3		
Hydrolysis | 14 days DIN EN 12280-3		
Hydrolysis | 21 days DIN EN 12280-3		
Heat aging 7 days acc. to DIN EN 12280-1		
Heat aging 14 days acc. to DIN EN 12280-1		
Heat aging 21 days acc. to DIN EN 12280-1		
Bursting strenght DIN EN ISO 13938-2	1 m x total width	

Fabrics | Woven and knitted Fire testing

Testings	Sample size	Note
– Upholstered furniture		
Flammability of upholstered furniture – smouldering cigarette DIN EN 1021-1	1,5 m x total width	Accredited test
Flammability of upholstered furniture – match flame equivalent DIN EN 1021-2	1,5 m x total width	Accredited test
BS 5852 source 0 (smouldering cigarette)	3 m x total width	Accredited test
BS 5852 source 1 (match flame equivalent 20 sec)	3 m x total width	Accredited test
BS 5852 source 2 (match flame equivalent 40 sec)	3 m x total width	Accredited test
BS 5852 source 3 (match flame equivalent 70 sec)	3 m x total width	Accredited test
BS 5852 source 5 (wooden crib)	3 m x total width	Accredited test
Classification of the burning behavior of upholstered composites DIN 66084 (Class P-c, DIN EN 1021-1)	1,5 m x total width	Accredited test
Classification of the burning behavior of upholstered composites DIN 66084 (Class P-b, DIN EN 1021-1/2)	3 m x total width	Accredited test
BS 7176 low hazard (DIN EN 1021-1/2)	3 m x total width	
BS 7176 medium hazard (DIN EN 1021-1/2, BS 5852 crib 5)	5 m x total width	
Flammability of upholstered furniture - smouldering cigarette ISO 8191-1	1,5 m x total width	
Flammability of upholstered furniture ISO 8191-2 (match flame equivalent 20 sec)	1,5 m x total width	
Mock-up-Test Section 1 - smouldering cigarette TB 117	1,5 m x total width	
Mock-up-Test ASTM E1353-08a	1,5 m x total width	
Mock-up-Test for upholstery fabrics NFPA 260	1,5 m x total width	
Water soaking for FR equipped textiles acc. to DIN EN 1021 or BS 5852		

– Bedding

Testings	Sample size	Note
Assessment of the flammability of bedding items – ignition source: smouldering cigarette DIN EN ISO 12952-1	1 test item	
Assessment of the flammability of bedding items – ignition source: match-flame equivalent DIN EN ISO 12952-2	1 test item	
Burning behaviour of bedding items – classification scheme DIN EN 14533 (for DIN EN ISO 12952-1/2)	2 test items	
Assessment of the flammability of mattresses and upholstered bed boards DIN EN 597-1 (smouldering cigarette)	1,5 m x total width	
Assessment of the flammability of mattresses and upholstered bed boards DIN EN 597-2 (gas flame)	1,5 m x total width	
Assessment of the flammability of duvets, pillows and mattress BS 6807 source 2 (match flame equivalent 40 sec)	3 m x total width or 2 x 50 x 50 cm	
Assessment of the flammability of duvets, pillows and mattress BS 6807 source 3 (match flame equivalent 70 sec)	3 m x total width or 2 x 50 x 50 cm	
Assessment of the flammability of duvets, pillows and mattress BS 6807 source 5 (wooden crib 5)	3 m x total width or 2 x 50 x 50 cm	
Assessment of the flammability of duvets and pillows BS 7175 source 0 (cigarette test)	3 m x total width	
Assessment of the flammability of duvets and pillows BS 7175 source 1 (match flame equivalent 20 sec)	3 m x total width	
Assessment of the flammability of duvets and pillows BS 7175 source 2 (match flame equivalent 40 sec)	3 m x total width	
Assessment of the flammability of duvets and pillows BS 7175 1source 3 (match flame equivalent 70 sec)	3 m x total width	
Assessment of the flammability of duvets and pillows BS 7175 source 5 (wooden crib 5)	3 m x total width	
BS 7177 low hazard (DIN EN 597-1/2)	2,5 m x total width	
BS 7177 medium hazard (DIN EN 597-1/2 + BS 6807 crib 5)	5 m x total width	

– Curtains and drapes

Burning behaviour – curtains and drapes DIN EN 13773 incl. DIN EN 1101 + DIN EN 1102 or DIN EN 13772	2,5 m x total width	**Accredited test**
Burning behavior of curtains and drapes acc. to DIN EN 13773 incl. DIN EN 1101 + DIN EN 1102 or DIN EN 13772 (assessment of 13773 with delivered condition and after 12 washes)	3 m x total width	**Accredited test**
Burning behaviour: curtains and drapes DIN EN 13772	2 m x total width	**Accredited test**
Determination of flammability of curtains BS 5867-2 Type A	2 m x total width	
Fire testing for curtains, drapes and blinds BS 5867 Part 2 Type B	2,5 m x total width	

– Protective clothing

Protective clothing – protection against heat and flames – method of testing for limited spreading of flames DIN EN ISO 15025	2 m x total width	**Accredited test**
Protective clothing – Thermal requirements: protection against heat and flames with limited propagation of flames DIN EN ISO 14116 (testing with original condition + after 5 washes)	2 m x total width	**Accredited test**

– Textiles and textile products

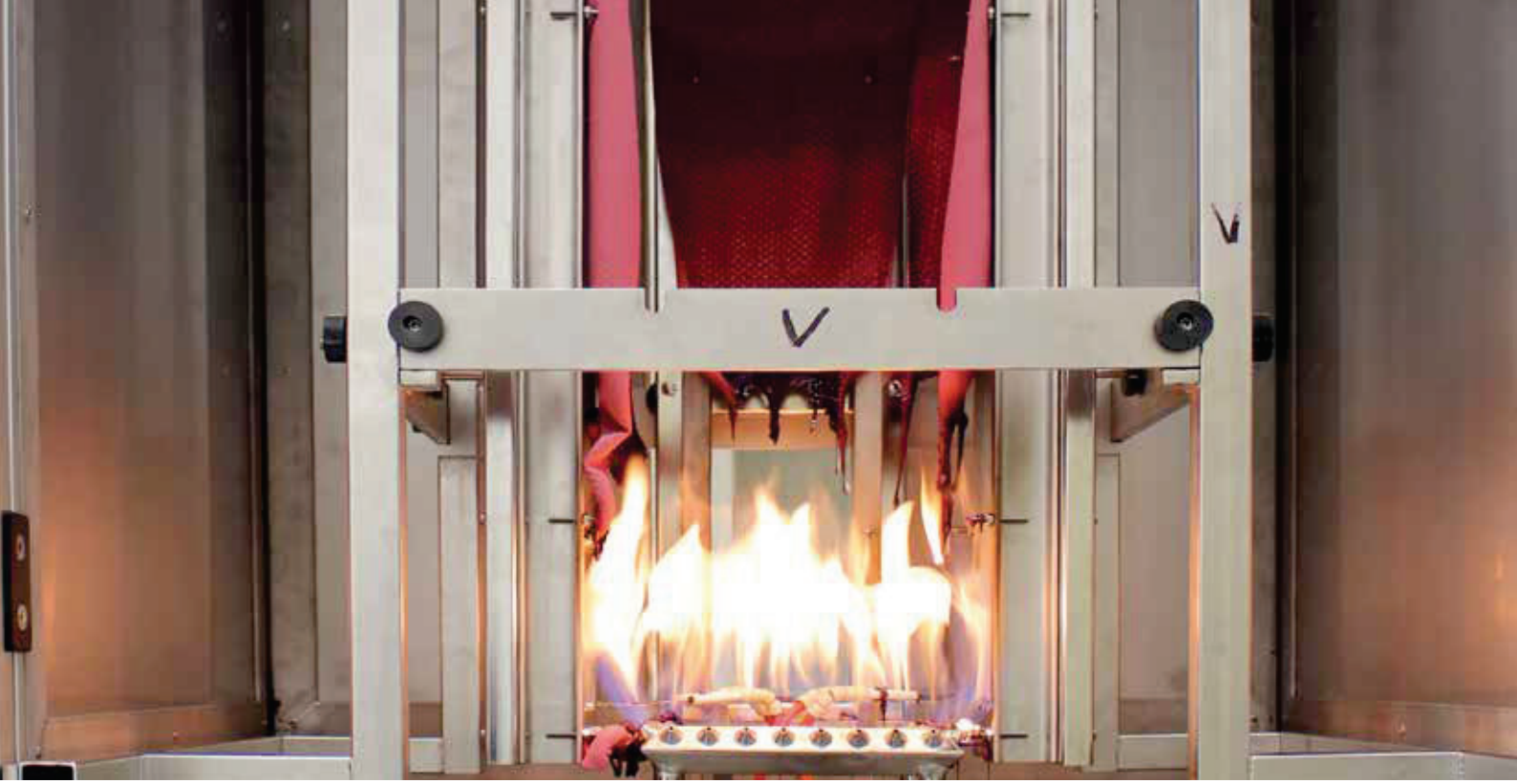
Testings	Sample size	Note
Burning behaviour – determination of inflammability of vertically oriented specimens DIN EN ISO 6940	2 m x total width	Accredited test
Burning behaviour – measurement of flame spreading properties of vertically oriented specimens DIN EN ISO 6941	2 m x total width	Accredited test
Burning behaviour – clothing textile DIN EN ISO 6941 + DIN EN 1103	2 m x total width	Accredited test
Burning behaviour of industrial and technical textiles DIN EN 1624	2 m x total width	
Burning behaviour of industrial and technical textiles DIN EN 1625	2 m x total width	
Flammability of products subjected to direct impingement of flame – single-flame source test DIN EN ISO 11925-2	1,5 m x total width	
Burning behaviour: construction materials, edge ignition DIN 53438-2	1 m x total width	
Burning behaviour: construction materials, surface flame exposure DIN 53438-3	1 m x total width	
Insulation material – behaviour when flaming with a burner PV 3357 (edge ignition)	1,5 m x total width	
Insulation material - behaviour when flaming with a burner PV 3357 (surface flame exposure)	1,5 m x total width	
Fire behaviour of building materials and components DIN 4102-1 B2	1 m x total width	
Assessment of flammability of synthetics UL 94 Method: HZ (horizontal burning) Assessment of delivered condition and 7-day heat storage at 70°C	DIN A3	
Assessment of flammability of synthetics UL 94 Method: HZ (horizontal burning) Assessment of delivered condition	DIN A3	
Assessment of flammability of synthetics UL 94 Method: HZ (vertical burning) Assessment of delivered condition and 7-day heat storage at 70°C	DIN A3	
Assessment of flammability of synthetics UL 94 Method: V-0, V-1 or V-2 (vertical burning) Assessment of delivered condition	DIN A3	
Heat storage according to UL 94 storage of samples for 7 days at 70°C		

– Car-interior trim

Burning behaviour of materials inside motor vehicles DIN 75200	1 m x total width	Accredited test
Burning behaviour of materials inside motor vehicles FMVSS 302	1 m x total width	
Burning behaviour: car-interior trim ISO 3795	1 m x total width	

– IMO 2010

2010 FTP Code IMO Part 8 – Test for upholstered furniture Resolution MSV.307(88) (comparable with BS 5852-1; ISO 8191-1/2; EN 1021-1/2)	3 m x total width	
Flammability of bedding components: mattress or topper/sheets 2010 FTP Code IMO Part 9, guideline MSC 307 (88) (comparable with DIN EN 597-1/2)	2 m^2	
Flammability of bedding components: mattress with topper/sheets 2010 FTP Code IMO Part 9, guideline MSC 307 (88) (comparable with DIN EN 597-1/2)	2 m^2 sheets and 4 Matrasses 450 x 350 mm	



Fire behavior of building materials and components DIN 4102-1

To quality as Bulding material B1 (flame resistant material), the requirements of “Kleinbrennerprüfung” B2 in compliance with DIN 4102-1 and the fire shaft test B1 in compliance with DIN 4102-16 must be met.

Specifications	Sample size	Note
Orienting tests		
Building material classification B2 Flammabilty test acc. DIN 4102-1 “Kleinbrennerprüfung”	1,5 m²	**Flame applied to edge and surface of the sample**
Building material classification B1 orienting “Kleinbrennerprüfung“ B2 acc. DIN 4102-1 and 1x fire shaft test B1 acc. DIN 4102-16	6 m²	
Tests for the classification of B1 “hardly flammable”		
Building material classification B1 every additional fire shaft fire shaft test B1 acc. to DIN 4102-16	2 m²	**For each further fire shaft test in a sequence of tests.**
Building material class B1 - foil materials incl. pre-test B2 acc. to DIN 4102-1, 2x fire shaft test B1 acc. to DIN 4102-16	6 m²	
Pre-test: flame applied to edge and surface, 4x fire shaft test B1, sample preparation is included	8 m²	
Building material classification B1 –Releases of the colour range incl. pre-test B2 acc. to DIN 4102-1 and DIN 4102-16 B1	brightest colour 8 m² medium colour 8 m² darkest colour 8 m²	**1x fire shaft test B1 acc. to DIN 4102-16 with brightest colour** **1x fire shaft test B1 acc. to DIN 4102-16 with medium colour** **1x fire shaft test B1 acc. to DIN 4102-16 with darkest colour** **3x fire shaft test on a colour with the most unfavourable result**
Building material classification B1 - Releases of the densities range incl. pre-test B2 acc. to DIN 4102-1		**2x fire shafts in lowest density** **2x fire shafts in highest density** **1x fire shafts in the lesser direction acc. to DIN 4102-16**
Building material classification B1 - Releases of the thickness range incl. pre-test B2 acc. to DIN 4102-1		**2x fire shafts in lowest** thickness **2x fire shafts in highest** thickness **1x fire shafts in the lesser direction acc. to DIN 4102-16**

Testreport in German

Testreport in English

Tests of colour fastness

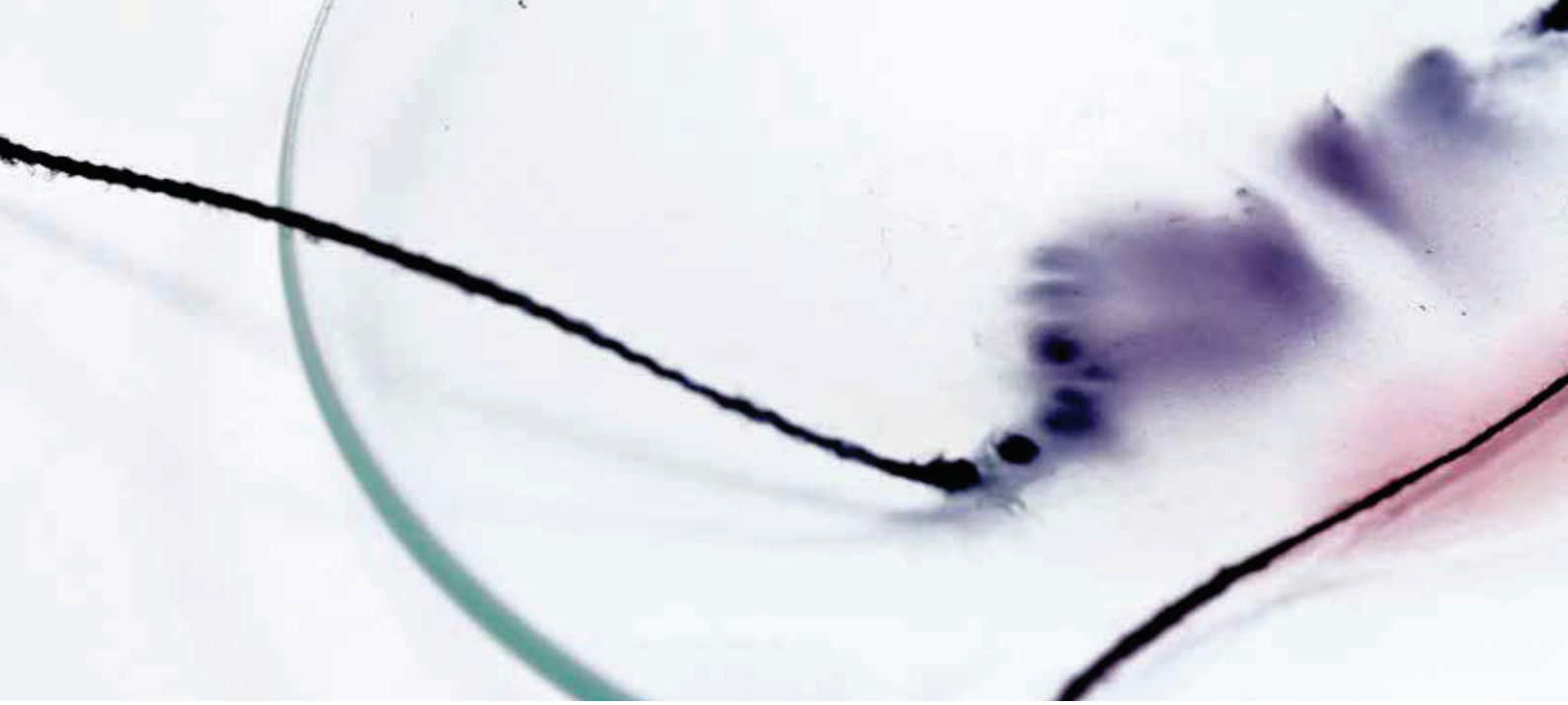
Testings	Sample size	Note
Colour fastness to rubbing (dry) DIN EN ISO 105-X12	DIN A4	Accredited test
Colour fastness to rubbing (wet) DIN EN ISO 105-X12	DIN A4	Accredited test
Colour fastness to rubbing (organic solvents) DIN EN ISO 105-D02	DIN A4	
Colour fastness to hot pressing (damp)* DIN EN ISO 105-X11	DIN A4	
Colour fastness to hot pressing (dry)* DIN EN ISO 105-X11	DIN A4	
Colour fastness to hot pressing (wet)* DIN EN ISO 105-X11	DIN A4	
Colour fastness to dry cleaning DIN EN ISO 105-D01	DIN A4	Accredited test
Colour fastness to organic solvents DIN EN ISO 105-X05	DIN A4	
Colour fastness to bleaching – hypochlorite DIN EN 20105-N01	DIN A4	
Colour fastness to bleaching – hypochlorite (mild) DIN 54034	DIN A4	
Hypochlorite wash fastness DIN 54016	DIN A4	
Colour fastness to spotting – acid DIN EN ISO 105-E05	DIN A4	
Determination of colour fastness of articles for common use – test with artificial saliva DIN 53160-1	DIN A4	
Determination of colour fastness of articles for common use – test with artificial sweat DIN 53160-2	DIN A4	
Colour fastness to perspiration (alkaline and acid) DIN EN ISO 105-E04	DIN A4	Accredited test
Colour fastness to spotting – alkali DIN EN ISO 105-E06	DIN A4	
Colour fastness to hot water DIN EN ISO 105-E08	DIN A4	
Colour fastness to chlorinated water DIN EN ISO 105-E03	DIN A4	

*in accordance

Testings	Sample size	Note
Colour fastness to sea water DIN EN ISO 105-E02	DIN A4	Accredited test
Colour fastness to water DIN EN ISO 105-E01	DIN A4	Accredited test
Colour fastness to water acc. to AATCC 107	DIN A4	
Colour fastness against urine acc. to D-LAB standard	DIN A4	
Colour fastness to spotting: water DIN EN ISO 105-E07	DIN A4	Accredited test
Colour fastness to domestic & commercial laundering – 40°C; 50°C; 60°C; 70°C; 95°C (detergent) DIN EN ISO 105-C06	DIN A4	Accredited test
Colour fastness to domestic and commercial laundering (using a non-phosphate reference detergent) DIN EN ISO 105-C08	DIN A4	
Colour fastness to domestic and commercial laundering – Oxidative bleach (using a non-phosphate reference detergent) DIN EN ISO 105-C09	DIN A4	
Colour fastness to washing – 40°C; 50°C; 60°C; 95°C (soap) DIN EN ISO 105-C10	DIN A4	Accredited test
Lightfastness DIN EN ISO 105-B02 (up to note 6/ for each colour)	7 cm x 5 cm	Accredited test
Lightfastness DIN EN ISO 105-B02 (up to note 7/for each colour)	7 cm x 5 cm	Accredited test
Lightfastness of textiles moistened with artificial sweat DIN EN ISO 105-B07 (up to grade 6 / per colour)	DIN A4	

Colour assessments

Testings	Sample size	Note
Grey scale for assessing change in colour DIN EN 20105-A02		
Grey scale for assessing staining DIN EN 20105-A03		



Analytical tests Textile chemical analysis

Testings	Sample size	Note
MAK Amines – Azodyes	DIN A4	Testing by partner laboratories
Detection of disperse dye – allergenic and carcinogenic DIN 54231	DIN A4	Testing by partner laboratories
Determination of formaldehyde DIN EN ISO 14184-1	DIN A4	Testing by partner laboratories
Formaldehyde – determination qualitative “Tüpfeltest”	DIN A4	
Determination of chromium(VI) content DIN EN ISO 17075	DIN A4	Testing by partner laboratories
Odour characteristics of trim materials in motor vehicles VDA 270	50 cm x total width	
Determination of pH aqueous solvents	100 ml	
Determination of pH aqueous extract DIN EN ISO 3071	DIN A4 10 g	
Determination of sizing content DIN 54285	DIN A4 20 g	
Determination of materials soluble in organic solvents DIN 54278-1	40 g	
Alkylphenols (Octylphenol and nonylphenol)	DIN A4 5 g	Testing by partner laboratories
Alkylphenol ethoxylates (Octylphenol ethoxylates and nonylphenol ethoxylates)	DIN A4 5 g	Testing by partner laboratories
Detection of dimethylformamide (DMF)	DIN A4 5 g	Testing by partner laboratories
Polycyclic aromatic hydrocarbons (PAK`s)	DIN A4 5 g	Testing by partner laboratories
Detection of organic tin compounds	DIN A4 5 g	Testing by partner laboratories

Analytical tests Fibre quality verification

Testings	Sample size	Note
Qualitative Fiber analysis	DIN A5	

Analytical tests Quantitative fibre analysis, separatic ary mixtures

Testings	Sample size	Note
Mechanical separation DIN EN ISO 1833-1 (Annex B)	DIN A4	
Quantitative chemical analysis – Ternary fibre mixtures DIN EN ISO 1833-2	DIN A4	
Mixtures of acetate and certain other fibres (method using acetone) DIN EN ISO 1833-3	DIN A4	
Mixtures of certain protein and certain other fibres (method using hypochlorite) DIN EN ISO 1833-4	DIN A4	
Mixtures of viscose or certain types of cupro or modal or lyocell and cotton fibres (method using formic acid and zinc chloride) DIN EN ISO 1833-6	DIN A4	
Mixtures of polyamide and certain other fibres (method using formic acid) DIN EN ISO 1833-7	DIN A4	
Mixtures of acetate and triacetate fibres - method using acetone DIN EN ISO 1833-8	DIN A4	
Mixtures of triacetate or polylactide and certain other fibres (method using dichloromethane) DIN EN ISO 1833-10	DIN A4	
Mixtures of cellulose and polyester fibres – method using sulfuric acid DIN EN ISO 1833-11	DIN A4	
Mixtures of acetate and certain chlorofibres (method using acetic acid) DIN EN ISO 1833-14	DIN A4	
Mixtures of polypropylene fibres and certain other fibres (method using xylene) DIN EN ISO 1833-16	DIN A4	
Mixtures of silk and wool or hair (method using sulfuric acid) DIN EN ISO 1833-18	DIN A4	
Mixtures of elastane and certain other fibres – method using dimethylacetamide – DIN EN ISO 1833-20	DIN A4	Testing by partner laboratories
Quantitative analysis of binary mixtures, wool with other fibres, potassium hydroxide solution method DIN 54204	DIN A4	
Quantitative analysis of binary mixtures, polyamide 6.6 or polyamide 6 fibres with other fibres, hydrochloric acid method DIN 54221	DIN A4	

Quality inspection to furniture fabrics according to DIN EN 14465

Testings	Sample size	Note
Tear strength – strip method DIN EN ISO 13934-1	1 m x total width	Accredited test
Tear properties of fabrics – wing-shaped test DIN EN ISO 13937-3	1 m x total width	Accredited test
Seam slippage resistance DIN EN ISO 13936-2	1 m x total width	Accredited test
Abrasion resistance – Martindale: specimen breakdown DIN EN ISO 12947-2 (up to 5.000 revs.)	30 cm x total width	
Abrasion resistance – Martindale: specimen breakdown DIN EN ISO 12947-2 (further 5.000 revs.)		
Pilling test – Martindale DIN EN ISO 12945-2 (5.000 revs.)	30 cm x total width	
Colour fastness to artificial light: xenon arc fading lamp DIN EN ISO 105-B02 (up to note 6/for each colour)	7 cm x 5 cm	Accredited test
Colour fastness to rubbing (dry) DIN EN ISO 105-X12	DIN A4	Accredited test
Colour fastness to rubbing (wet) DIN EN ISO 105-X12	DIN A4	Accredited test

Miscellaneous

Contents
General testing per hour (fabric analysis, microscopy, micro-pictures, other)
Consulting per hour
Investigation report
Preparation of a test report according to DIN 4102-1 (german)
Preparation of a test report according to DIN 4102-1 (english)
Surcharge for urgent orders
Postage costs

The index listed above, shows a price indication of our specified standard services. Further evaluations are available upon request.

Binding prices are obtained when a quote is issued according to the individual extent of testing. These are based on type of evaluation, specimen preparation, form of analysis and frequency of testing. The above listed examinations do not include the issuing of test reports. The costs for interpreting test results are established based on the extent of work involved.

The General Terms and Conditions of DELCOTEX Delius Techtex GmbH & Co. KG are applicable (see www.textillabor.eu). All prices are per sample and are subject to an additional 19% VAT. The price list is valid as of 01.08.2025 and replaces all previous price lists.

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Status 08/2025

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