

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list reference to similar standards
Germany				
	DIN 4102	- 1: (B2/B3) surface impingement 230 x 90 x max.60 23/50-2 23/50-2ISO 554 (14 days) edge impingement 190 x 90 x max.60 23/50-2ISO 554 (14 days)	5 10	DIN 4102 (B2/B3 small burner) DIN 53438 GB 8626-88 DIN 5510 Teil 2 S1 acc. DIN 53 438 (small parts) EN ISO 11925-2 Flame application 15 s or 30 s DIN 53438
		- 1; - 15: Brandschachtprüfung (A/B1) (1000 +0/-5) x (190 +0/-5) x max. (80 +-5) In cases where constant mass cannot be defined, climatisation for min 28 d is required. 23 +- 2 °C, 50 +- 5% rhISO 554 (conditioning to constant mass (< 0,1% / 24 hrs)) indicative test (1000 +0/-5) x (190 +0/-5) x max. (80 +-5) 4 specimen for each single test (1 x 4) 23/50-2ISO 554 (14 days) specimen with covered edges 980 x 180 x max. 80 4 specimen for each single test (3 x 4) 23/50-2ISO 554 (14 days) specimen with covered edges, indicative test 980 x 180 x max. 80 4 specimen for each single test (1 x 4) 23/50-2ISO 554 (14 days)	4 12	DIN 4102 (A2/B1 Brandschacht, indicative) DIN 4102 - 1; - 15: Brandschachtprüfung (A/B1) GB 8625-88
		- 8: Fire Resistance Test (small sample) (30 min) 550 x 550 x d	2	DIN 4102 - 8 (fire resistance, small sample)
		Building materials class (A) non combustibility 50 x 40 x 40 Coatings have to be applied to a 50 x 40 surface 105°C (6 h)	5	DIN 4102 (A1, non combustibility test) DIN 4102 Building materials class (A) non combustibility ISO 1182
		-14; Flooring test		DIN 4102 -14 (B1, Flooring)

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		test in end use condition non isotropic materials: three in production direction and three perpendicular to production direction 1050 x 230 x d 23/50-2ISO 554 (14 days)	3	<u>ASTM E 648</u> EN ISO 9239-1 <i>Schweizer Wegleitung Part B 2.4 Flooring</i> NEN 1775 ISO 9239
		textile materials unconnected to the substrate 1050 x 230 x d three in production direction and three perpendicular to production direction	6	DIN 5510 Teil 2 SF1-SF3 acc. DIN 4102 T.14 or. ISO 9239-1 (<i>Flooring test</i>) <u>EN ISO 9239-1</u> ASTM E 648
		Annex A combustion under smouldering conditions 270 x 5 x 2 23/50-2ISO 554 (14 days)	6	DIN 4102 Anhang A (smouldering combustibility)
		Annex B Combustion under flaming conditions 30 x 30 x d (max. 15 mm) 23/50-2ISO 554 (14 days)	5	DIN 4102 Annex B (XP2-chamber)
DIN 51900 Teil 3	Verfahren mit adiabatischem Mantel zur Bestimmung des Heizwertes	DIN 51900 Part 3, Gross heat of combustion Performed by Laboratory of waste incineration BASF ca. 50 g Individual layers have to be tested separately. 23 (+-2) °C / 50 (+-5) % rHISO 554 (24 h)	1	Heizwertbestimmung
		DIN 51900 Part 3: Net heat of combustion Performed by Laboratory of waste incineration BASF ca. 50 g Individual layers have to be tested separately. 23 (+-2) °C / 50 (+-5) % rHISO 554 (24 h)	1	Heizwertbestimmung
DIN 53438	Kleinbrennertest			DIN 4102 (B2/B3 small burner)

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		surface impingement 230 x 90 x max.60 five in production direction and five perpendicular to production direction	10	<u>DIN 53438</u> <u>GB 8626-88</u> <u>DIN 5510 Teil 2 S1 acc. DIN 53 438 (small parts)</u>
		edge impingement 190 x 90 x max.60 five in production direction and five perpendicular to production direction	10	<u>DIN 4102 - 1: (B2/B3)</u> <u>EN ISO 11925-2 Flame application 15 s or 30 s</u> <u>DIN 4102 - 1: (B2/B3)</u>
		Test of core materials of sandwich constructions acc. to DIN 5510-2 (edge impingement) 190 x 90 x max.60 The tests could be carried out at the entire compound on twisted specimens.	5	
DIN 54341 (Papierkissentest)		Paper cushion test		DIN 5510-2 (paper-cushion-test), not vandalised
Prüfung von Sitzen für Schienenfahrzeuge des öffentlichen Personenverkehrs; Bestimmung des Brennverhaltens mit einem Papierkissen		test rig Base upholstery (foam): 450 x 300 x d Base upholstery (foam): 450 x 450 x d Fabric: acc. to foam thickness 23/50-2ISO 554 (14 days)	3	<u>DIN 54341 (Papierkissentest) Paper cushion test</u> <u>DIN 5510 Teil 2 Tip-up seats, paper cushion test, not vandalised</u>
DIN 54836	Entzündungstemperatur	For technical reasons, we can only determine the ignition temperature at constant test temperature acc. to clause 7.5. Preferably, the simplified procedure acc. to clause 8 is used. 3 g for each single test	30	DIN 54836 (ignition temperature)
DIN 54837				DIN 5510-2 (DB-Brandschacht)
		Product test for railway applications Oriented materials like textiles have to be tested length- and crosswise. 23/50ISO 554 (conditioning to constant mass, min 48h) sheets and small parts 500 x 190 x d Profiles and linear products have to be tested as segments of 500 mm length. 23/50-2ISO 554 (48h)	5	<u>DIN 54837</u> <u>DIN 5510 Teil 2 S2-S5 acc. DIN 54 837</u>

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	DIN 5510 Teil 2	Tip-up seats, paper cushion test, not vandalised Tip-up seat (Back, base, ...)	9	DIN 5510-2 (tip-up seat), not vandalised
		Tip-up seats, paper cushion test, not vandalised, vandalised Tip-up seat (Back, base, ...)	12	DIN 5510-2 (tip-up seat), not vandalised, vandalised
		S1 acc. DIN 53 438 (small parts) surface impingement 230 x 90 x max.60 Non isotropic materials have to be tested lengthwise and crosswise edge impingement 190 x 90 x max.60 Non isotropic materials have to be tested lengthwise and crosswise small parts end use dimensions	5	DIN 4102 (B2/B3 small burner) <u>DIN 53438</u> GB 8626-88 DIN 4102 - 1: (B2/B3)
		S2-S5 acc. DIN 54 837 end use materials 500 x 190 x d linear products have to be tested as segments of 500 mm length. Non isotropic materials have to be tested lengthwise and crosswise. The core material(s) of sandwich construction have to be tested acc. to DIN 53438-2. sheets 500 x 190 x d Non isotropic materials have to be tested lengthwise and crosswise. The core material(s) of sandwich construction should be tested acc. to DIN 53438-2.	5	DIN 5510-2 (DB-Brandschacht)
		SF1-SF3 acc. DIN 4102 T.14 or. ISO 9239-1 (Flooring test) test in end use condition non isotropic materials: three in production direction and three perpendicular to production direction 1050 x 230 x d 23/50-1ISO 554 (14 days) textile materials unconnected to the substrate 1050 x 230 x d three in production direction and three perpendicular to production direction 23/50-2ISO 554 (14 days)	3	DIN 4102 -14 (B1, Flooring) <u>ASTM E 648</u> EN ISO 9239-1 DIN 4102 -14; Flooring test Schweizer Wegleitung Part B 2.4 Flooring NEN 1775
			4	ISO 9239

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		Seats. paper cushion test		DIN 5510-2 (paper-cushion-test), not vandalised
		Seats with back, base, armrests, ...		
		Complete seat (Back, base, armrests, ...)	6	<u>DIN 5510 Teil 2 Seats. paper cushion test, not vandalised</u> <u>DIN 5510 Teil 2 Tip-up seats, paper cushion test, not vandalised</u>
		Seats. paper cushion test, not vandalised, vandalised		DIN 5510-2 (paper-cushion-test), not vandalised
		Complete seat (Back, base, armrests, ...)	9	
		Toxicity acc. to Annex C		ISO 5659-2 (Determination of Smoke Toxicity, DIN 5510-2)
		25 kW/m ² , horizontal, flaming condition 75 x 75 x max.25 Alternatively for gaskets: profiles, Dmax 25 mm 23 + - 2 °C, 50 + - 5% rh (conditioning to constant mass)	3	
	DIN 75200			FMVSS 302 (burning rate)
	KFZ-Insassenraumteile	356 x 100 x max. 13 a) Width 3 to 60 mm: L = 356 mm b) Width 60 to 100 mm: Lmin = 138 mm c) For W < 60 mm and L < 356 mm, or B from 60 to 100 mm and L < 138 mm: No test possible		5 <u>FMVSS 302 acc. to TL 1010</u> <u>Richtlinie 95/28/EG - Directive 95/28/EC Annex IV horizontal burning rate</u> <u>U.T.A.C St 18-502/1 2.1 Flame propagation</u> <u>JIS D 1201</u> <u>ISO 3795</u> <u>BS AU 169</u>
	DIN EN 16733			DIN 4102 (A2/B1 Brandschacht, indicative)
	Prüfungen zum Brandverhalten von Bauprodukten – Bestimmung der Neigung eines Bauprodukts zum kontinuierlichen Schwelen	2 specimens for isotropic, 2 x 2 specimens for anisotropic materials. (800 ± 3) mm x (300 ± 3) mm End use thickness, max. 100 mm Anisotropic materials have to be tested length- and crosswise; the more unfavorable orientation to be repeated. Asymmetric specimens are to be tested from both sides; thickness reduction (if required) from the rear. 23 (+-2) °C / 50 (+-5) % rH ISO 554 (conditioning to constant mass, or min 48h)	2	

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Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list reference to similar standards
	DIN EN 50267-2-2 Prüfung der bei der Verbrennung der Werkstoffe von Kabeln und isolierten Leitungen entstehenden Gase Bestimmung des Grades der Azidität von Gasen bei Werkstoffen durch die Messung von pH-Wert und Leitfähigkeit Verbrennung bei 935°C	Determination of pH and conductivity of aqueous solution of combustion gases 10 g 23 +- 2 °C, 50 +- 5% rhISO 554 (min 16 hrs.)	2	
	DIN EN 50305 Bahnanwendungen - Kabel und Leitungen für Schienenfahrzeuge mit verbessertem Verhalten im Brandfall	Chapter 9.2: Toxicity 1 single test at 800°C ca. 10 g 23/50-1ISO 554 (48h)		BS 6853 Annex B.1 1 NF X 70-100 <i>DIN EN 60754-2 (VDE 0482-754-2):2015-08 Determination of acidity (pH) and conductivity</i> <i>BS 6853 Annex B.1 mass based test method</i> <i>IEC 754-1/2</i>
	DIN EN 60754-2 (VDE 0482-754-2):2015-08 Prüfung der bei der Verbrennung der Werkstoffe von Kabeln und isolierten Leitungen entstehenden Gase – Teil 2: Bestimmung der Azidität (durch Messung des pH-Wertes) und Leitfähigkeit Verbrennung bei 935°C	Determination of acidity (pH) and conductivity 10 g 23 (+-2) °C / 50 (+-5) % rHISO 554 (min. 16 h)	3	NF X 70-100 (French Tube Furnace) NF X 70-100 <i>DIN EN 50305 Chapter 9.2: Toxicity</i> <i>BS 6853 Annex B.1 mass based test method</i> <i>IEC 754-1/2</i>
	DIN EN ISO 340 Fördergurte - Brandverhalten bei Laborprüfung - Anforderungen und Prüfverfahren (ISO 340:2004) Deutsche Fassung EN ISO 340:2004	German version EN ISO 340:2013 Textile conveyor belts a) with + w/o cover plate: 2 x 3 with plates length- + crossw. b)with cover plates: 6 each length- and crosswise c)For conveyor belts w/o cover plates: each 6 length- and crosswise Steel cable con.belts: 6 lengthw. (200 +- 5) x (25 +- 1) (2x2x3) 23 +- 2 °C, 50 +- 5% rh,ISO 554 (conditioning to constant mass)	12	Conveyor belts - Laboratory scale flammability characteristics - Requirements and test method
	PV 3357 Dämm-Material - Verhalten beim Beflammen mit einem Brenner Konzern-Norm Volkswagen-AG	Short and longtime flame application to insulation materials. This standard ist not covered by our accreditation.		VW Brandprüfung Dämm-Material

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		Acc. to Standard: Surface flaming: 2 samples each from min and max thickness of component Edge flaming:4 samples each with min and max thickness of component. Thereof 2 each with open and embossed cutting edges 230 mm x 200 mm Short- and longtime flame application (15 s and 10 min) 23 +/- 2 °C, 50 +/- 5% rhISO 554 (min. 24h)	8	
Europe				
DIN EN 45545-2				
Railway applications - Fire protection of railway vehicles - Part 2: Requirements for fire behaviour of materials and components				
Enthält / consists of EN ISO 4589-2 ISO 5658-2 ISO 5659-2 ISO 5660-1 EN ISO 9239-1 EN ISO 11925-2 EN 45545-2 Annex C				
DIN EN 60695-11-10				
Prüfflammen – Prüfverfahren mit einer 50-W-Prüfflamme horizontal und vertikal				
Method B (Bars), incl. Heat ageing 125 +/- 5 mm x 13 +/- 0,5 mm x d (d=minimum and maximum end use thickness; preferred: 0,1 - 0,2 - 0,4 - 0,75 - 1,5 - 3,0 - 6,0 - 12,0 mm) (2x5) bei 23/50, (2x5) at 70°C, then 4 h in exsiccator				
20				
Conveyor belts - Laboratory scale flammability characteristics - Requirements and test method				
<u>UL 94 V-0/-1/-2</u> <u>IEC 60695-11-10 (vertikal)</u> <u>ISO 1210 Method B - Determination of afterflame and/or afterglow times on vertical specimens</u>				
ECE-R 118				
Regelung Nr. 118 der Wirtschaftskommission der Vereinten Nationen für Europa (UN/ECE) — Einheitliche technische Vorschriften über das Brennverhalten von Materialien der Innenausstattung von Kraftfahrzeugen bestimmter Klassen				
Ersetzt die Richtlinie 95/28/EG				
Annex 6: Test to determine the horizontal burning rate of materials				
356 x 100 x max. 13 Non isotropic materials shall be tested length- and crosswise (5 specimens each). The thickness of the sample corresponds to the thickness of the product to be tested. If possible, the sample shall have a constant section over its entire length. 23 +/- 2 °C, 50 +/- 5% rhISO 554 (min. 24 hrs, max. 7 d)				
5				
Directive 95/28/EC Annex IV (horizontal)				
<u>ECE-R 118 Annex 6: Test to determine the horizontal burning rate of materials</u> <u>Richtlinie 95/28/EG - Directive 95/28/EC Annex IV horizontal burning rate</u>				

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		Annex 7: Test to determine the melting behaviour of materials 70 x 70 x max. 13 Specimen must have a minimum mass of 2 g. Of specimen with lower mass, sufficient number of specimen has to be combined. 23 +- 2 °C, 50 +- 5% rhISO 554 (min. 24h)		Directive 95/28/EC Annex V (dripping test) 4 <u>ECE-R 118 Annex 7: Test to determine the melting behaviour of materials</u> Richtlinie 95/28/EG - Directive 95/28/EC Annex V Dripping test
		Annex 8: Test to determine the vertical burning rate of materials 560 x 170 x d Non isotropic materials have to be tested lengthwise and crosswise, i.e. 3 specimens in warp and weft plus 3 specimens each as spare in case of repetition. 23 +- 2 °C, 50 +- 5% rhISO 554 (min. 24h)		Directive 95/28/EC Annex VI (vertical) 3 <u>ECE-R 118 Annex 8: Test to determine the vertical burning rate of materials</u> Richtlinie 95/28/EG - Directive 95/28/EC Annex VI Vertical burning rate
EN 1021	Entzündbarkeit von Polstermöbeln	Part 1: smouldering cigarette test rig Back upholstery (foam): 1 pc.(450+- 5) x (300+-5 x (75+-2) Base upholstery (foam): 1 pc. (450+-5) x (150+-5) x (75+-2) Fabric: (800+10/-0) x (650+10/-0) Internal or external liners/fabrics which are FR treated need to be watered and dried prior to conditioning (additional charging) 23 +- 2 °C, 50 +- 5% rh (min. 24h)		EN 1021-1 (smouldering cigarette) 2 <u>BS 5852 Part 1-6</u> NT Fire 014 JIS A 1321 Surface-Test EN 1021 Part 2: small flame test UNI 9175
		Part 2: small flame test test rig Back upholstery (foam): 1 pc. (450+- 5) x (300+-5 x (75+-2) Base upholstery (foam): 1 pc. (450+-5) x (150+-5) x (75+-2) Fabric: (800+10/-0) x (650+10/-0) Internal or external liners/fabrics which are FR treated need to be watered and dried prior to conditioning (additional charging) 23 +- 2 °C, 50 +- 5% rh (min. 24h)		EN 1021-2 (small-flame-test) 3 <u>BS 5852 Part 1-6</u> NT Fire 014 JIS A 1321 Surface-Test EN 1021 Part 1: smouldering cigarette UNI 9175
EN 13823	Single Burning Item (orientierend)	(indicative) long wing: 1000 x 1500 x d, short wing: 500 x 1500 x d d max = 200 mm 23/50-1EN 13238 (conditioning to constant mass)	1	

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	EN 50267-2-2 Prüfung der bei der Verbrennung der Werkstoffe von Kabeln und isolierten Leitungen entstehenden Gase	10 g	6	
	Bestimmung des Grades der Azidität von Gasen bei Werkstoffen durch die Messung von pH-Wert und Leitfähigkeit			
	EN 60695-2-11 Glow-wire test for end products	Test of GWEPT on end products per standard: 1 single test against the most critical part (closest to thermal attack) of the specimen. Recommended: 3 single tests. Sample size not defined by the standard. 15 - 35°C / 45 - 75% r.H. (24 h)	IEC 60695-2-10 (Glow-wire-test) 1 <u>IEC 60695 Part 2-10: Glow-wire-test</u> <u>VDE 0471 Part 2-1: Glow-wire-test</u>	
		Glow wire flammability test for end products acc. to EN 45545-2:2016, R25 end products per standard: 1 single specimen required; to be tested against the most critical part (closest to thermal attack) of the specimen. Recommended: 3 single tests. Sample size not defined by the standard. 15 - 35°C / 45 - 75% r.H. (24 h)	EN 60695-2-11 (Glow-wire test for end products) 1	
	EN ISO 1182 Non-Combustibility-Test	Ø 45 x 50, V: 80 cm ³ cylindrical sample 23/50-2EN 13238 (conditioning to constant mass)	5	EN ISO 1182 (non combustibility test) <u>ISO 1182</u> GB 3464-85 UNE 23-102 ÖNORM B 3800 (<i>Entw. Beibl.</i>) Non combustibility NT Fire 001 NEN 6064 JIS A 1321 <i>Incombustibility-Test</i> IMO (<i>Res.A.472(XII)</i>) DS 1056 BS 476 Part 4 bzw. Part 11 AS 1530; Part 1
	EN ISO 11925-2 Reaction to fire tests for building products - Part 2: Ignitability when subjected to direct impingement of flame	Annex A		EN ISO 11925-2 (small burner)

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		Non isotropic materials have to be tested in production direction and perpendicular to production direction 250 x 180 x max. 60 mm 23 +/- 2 °C, 50 +/- 5% rhEN 13238 (conditioning to constant mass, min 48h)	6	<u>DIN 4102 - 1: (B2/B3)</u> UNI 8456 Combustible materials which can be exposed to a flame on both surfaces BS 5438 Test 2A. Limited flame spread: face ignition EN ISO 11925-2 Flame application 15 s or 30 s ÖNORM B 3800 (Entw. Beibl.) class B2, small burner test UNI 8457 Combustible materials which can be exposed to a flame on one surface
		Flame application 15 s or 30 s 15 s flame impingement for E and F classification; 30 s flame impingement for B - D classification Non isotropic materials have to be tested in production direction and perpendicular to production direction 250 x 90 x max. 60 mm	6	EN ISO 11925-2 (small burner) <u>DIN 4102 - 1: (B2/B3)</u> UNI 8456 Combustible materials which can be exposed to a flame on both surfaces EN ISO 11925-2 Annex A BS 5438 Test 2A. Limited flame spread: face ignition ÖNORM B 3800 (Entw. Beibl.) class B2, small burner test UNI 8457 Combustible materials which can be exposed to a flame on one surface
	EN ISO 9239-1 Reaction to fire tests for floorings - Part1: Determination of the burning behaviour using a radiant source (ISO/FDIS 9239-1)	For non isotropic materials 1 sample of each orientation (in production direction and perpendicular to production direction) has to be tested. The test has to be repeated twice for the orientation with lowest CHF and/or HF-30 value. 1050 x 230 x d 23/50-2EN 13238 (conditioning to constant mass)	6	EN ISO 9239-1 (Flooring) <u>ASTM E 648</u> DIN 4102 -14; Flooring test Schweizer Wegleitung Part B 2.4 Flooring NEN 1775 ISO 9239 DIN 5510 Teil 2 SF1-SF3 acc. DIN 4102 T.14 or. ISO 9239-1 (Flooring test) <u>ISO 9239</u> ASTM E 648
	Richtlinie 95/28/EG - Directive 95/28/EC des europäischen Parlamentes und Rates vom 24. Oktober 1995 über das Brennverhalten von Werkstoffen der Innenausstattung bestimmter Kraftfahrzeugklassen Burning behaviour of materials used in interior construction of certain categories of motor vehicles	Annex IV horizontal burning rate Annex IV Non isotropic materials have to be tested in production direction and perpendicular to production direction 356 x 100 x max. 13 23/50-2EN 13238 (conditioning to constant mass)	5	FMVSS 302 (burning rate) <u>FMVSS 302 acc. to TL 1010</u> U.T.A.C St 18-502/1 2.1 Flame propagation JIS D 1201 ISO 3795 DIN 75200 BS AU 169

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		Annex V Dripping test		NF P 92-505 (dripping test)
		Annex V 70 x 70 x max. 13 23/50-2EN 13238 (min. 24h)	4	<u>NF P 92-505</u> UNE 23-725 U.T.A.C St 18-502/1 2.2 Dripping test
		Annex VI Vertical burning rate		Directive 95/28/EC Annex VI (vertical)
		Annex VI Non isotropic materials have to be tested in production direction and perpendicular to production direction 560 x 170 x d 23/50-2EN 13238 (min. 24h)	3	
	Richtlinie 97/24/EG Directive 97/24/EC Kraftstoffbehälter für zweirädrige oder dreirädrige Kraftfahrzeuge - Feuerbeständigkeitsprüfung	Annex 1 Horizontal burning rate 125 x 12,5 x d		UL 94 HB (horizontal) 10 <u>UL 94 HB</u> ASTM D 635 IEC 60695-11-10 (horizontal)
France				
	NF EN 11925-2 Brennbarkeitsprüfung an Polystyrol-Hartschäumen Prüfung auf Klasse E mit verschärften Kriterien für die Zertifizierung in Frankreich	3 samples lengthwise / 3 crosswise, or 6 isotropic samples (250 +0/-1) x (90 +0/-1) x (20 +- 1) 23 +- 2 °C, 50 +- 5% rhISO 554 (48h)	6	EN ISO 11925-2 (small burner)
	NF F 16-101 Choix des matériaux, beinhaltet / includes: Platten / sheets: NF P 92-501/3/4/5 Kleinteile / small parts: NF EN ISO 60695 Glühdraht NF EN ISO 4589 (Oxygen-Index) NF X 10-702 (Rauchdichte) NF X 70-100 (Gasanalyse) NF G 07-128 Essai de tenue au feu du sièges			
	NF P 92-501 Essai par rayonnement			NF P 92-501 (Epiradiateur)

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		The exposed surface of sandwich panels has to be grooved (3mm). The groove should be placed from the middle of the narrow side 180 mm in direction of the sample centre parallel to the long side.	4	<u>NF P 92-501</u> UNE 23-721
		400 x 300 x d. (d(max) = 120 mm 23 (+2) °C / 50 (+5) % rHconstant weight ((< 0,1% or < 0,1 g in 24 h))		
NF P 92-503 Essai au brûleur électrique		600 x 180 x max.5 Anisotropic materials have to be tested length- and crosswise; the more unfavorable orientation to be repeated. Asymmetric specimens are to be tested from both sides; thickness reduction (if required) from the rear. 23 (+2) °C / 50 (+5) % rH7 days, or constant mass	4	NF P 92-503 (electrical burner) <u>NF P 92-503</u> UNE 23-723 U.T.A.C St 18-502/1 2.3 electrical burner
NF P 92-505 Essai de goutte pour matériaux fusible (Abtropfversuch)		70 x 70 x d. d(max) = 100 mm The specimen shall have a mass of at least 2 g 23 (+2) °C / 50 (+5) % rHconstant weight ((< 0,1% or < 0,1 g in 24 h))	4	NF P 92-505 (dripping test) <u>NF P 92-505</u> Richtlinie 95/28/EG - Directive 95/28/EC Annex V Dripping test UNE 23-725 U.T.A.C St 18-502/1 2.2 Dripping test
NF X 10-702 Essai de mesure de la densité optique spécifique de la fumée (Rauchdichte)		(76,0 +0,2/-0,6) x (76,0 +0,2/-0,6) x max. (19,0 +0,3) mm 23 +- 2 °C, 50 +- 5% rh (min. 48 h)	4	NF X 10-702 (NBS Smoke Box) <u>ASTM E 662</u> BS 6853 Annex B.2 Area based test method ABD 0031 Chapter 7-3 and 7-4 NFPA 258 Smoke Generation of Solid Materials BS 6401
NF X 70-100 Analyse des gaz de combustion et de pyrolyse		ca. 10 g 23/50-1ISO 554 (conditioning to constant mass, min 48h)	1	NF X 70-100 (French Tube Furnace) <u>NF X 70-100</u> DIN EN 60754-2 (VDE 0482-754-2):2015-08 Determination of acidity (pH) and conductivity DIN EN 50305 Chapter 9.2: Toxicity BS 6853 Annex B.1 mass based test method IEC 754-1/2

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	U.T.A.C St 18-502/1	2.1 Flame propagation 356 x 100 x max. 13		FMVSS 302 (burning rate) 5 <u>FMVSS 302 acc. to TL 1010</u> <i>Richtlinie 95/28/EG - Directive 95/28/EC Annex IV horizontal burning rate</i> <i>JIS D 1201</i> <i>ISO 3795</i> <i>DIN 75200</i> <i>BS AU 169</i>
		2.2 Dripping test 70 x 70 x max. 60	4	NF P 92-505 (dripping test) <u>NF P 92-505</u> <i>Richtlinie 95/28/EG - Directive 95/28/EC Annex V Dripping test</i> <i>UNE 23-725</i>
		2.3 electrical burner 600 x 180 x max. 5	4	NF P 92-503 (electrical burner) <u>NF P 92-503</u> <i>UNE 23-723</i>
<hr/>				
Britan				
	BS 2782 Part 1 Oxygen-Index-Test	solid materials 70-150 x 6,5 x 3,0	30	ISO 4589 (Oxygenindex, LOI) <u>ISO 4589-2</u> <i>NT Fire 013</i>
		films 140 x 52 x d	30	<i>NES 714</i> <i>JIS K 7201</i>
			30	
	BS 2782 Part 5, Method 508A Methods of testing plastics: Rate of burning	Test by non-luminous flame for 10 s 150 x 13 x 1,5+-0,1 3 samples as spare	3	UL 94 HB (horizontal)
	BS 415 Part 20.2 Fernsehergehäuse (Bunsenbrenner)	125±5 x 13 x max. 1,3	5	UL 94 HB (horizontal) <u>IEC 60065 Burner test</u> <i>NEN 21210</i> <i>ISO 1210 Method A - Determination of linear burning rate o horizontal specimens</i> <i>IEC 60695 Part 11-5: Needle flame test</i>
	BS 476 Part 6 Fire propagation			BS 476 Part 6 (fire propagation)

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list <i>reference to similar standards</i>
		(225 ± 1,5) mm x (225 ± 1,5) mm x d (max. 50) Specimens of normal thickness > 50 mm are reduced in thickness by cutting away the unexposed face to 50 (+0/-3) mm. Please define whether the test shall be performed with air gap or a defined substrate! 23 +- 2 °C, 50 +- 5% rh (conditioning to constant mass)	3	
BS 476 Part 7	Spread of flame	Spread of flame (885 +0, -5) x (270 + 0, -5) x max. 50 mm Specimens expected to achieve Class 1 may have a minimum length of 250 mm. Please respect maximum sample dimensions ! For tests on upholstery composites, the foam dimensions have to take into account the thickness of the fabric layer(s). 23 +- 2 °C, 50 +- 10% rhISO 554 (conditioning to constant mass)	6	BS 476 Part 7 (spread of flame)
BS 5438	Flammability of textile fabrics when subjected to a small igniting flame applied to the face or bottom edge of vertically oriented specimens	Test 2A. Limited flame spread: face ignition Test 2A 200 x 160 x thickness (2 x 3); 3 specimens in length direction and 3 specimens in width direction 23/50-2ISO 554 (min. 24h)	6	DIN 4102 (B2/B3 small burner) <u>DIN 4102 - 1: (B2/B3)</u> UNI 8456 Combustible materials which can be exposed to a flame on both surfaces EN ISO 11925-2 Annex A EN ISO 11925-2 Flame application 15 s or 30 s ÖNORM B 3800 (Entw. Beibl.) class B2, small burner test UNI 8457 Combustible materials which can be exposed to a flame on one surface
BS 5852 Part 1-6	Assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources	Crib 5 Upholstery: 450 x 450 x 75 and 450 x 300 x 75 Fabric: 1100 x 650 Crib 7 Upholstery: 450 x 450 x 75 and 450 x 300 x 75 Fabric: 1100 x 650	2	BS 5852 (z.B.: Crib 5, Crib 7) <u>BS 5852 Part 1-6</u> NT Fire 014 JIS A 1321 Surface-Test EN 1021 Part 2: small flame test EN 1021 Part 1: smouldering cigarette UNI 9175

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list reference to similar standards
	BS 6853 Annex B.1 Code of practice for fire precaution of passenger carrying trains Annex B Determination of weighted summation of toxic fume, R	mass based test method ca. 10 g 23/50-1ISO 554 (conditioning to constant mass)		BS 6853 Annex B.1 <u>NFX 70-100</u> DIN EN 60754-2 (VDE 0482-754-2):2015-08 Determination of acidity (pH) and conductivity DIN EN 50305 Chapter 9.2: Toxicity IEC 754-1/2
	BS 6853 Annex B.2 Code of practice for fire precaution of passenger carrying trains Annex B Determination of weighted summation of toxic fume, R	Area based test method 75 x 75 x max.25		BS 6853 Annex B.2 (smoke toxicity test) 9 <u>ASTM E 662</u> ABD 0031 Chapter 7-3 and 7-4 NFPA 258 Smoke Generation of Solid Materials NFX 10-702 BS 6401
	BS AU 169 Materials for motor vehicles	356 x 100 x max. 13		FMVSS 302 (burning rate) 5 <u>FMVSS 302 acc. to TL 1010</u> Richtlinie 95/28/EG - Directive 95/28/EC Annex IV horizontal burning rate U.T.A.C St 18-502/1 2.1 Flame propagation JIS D 1201 ISO 3795 DIN 75200
International				
	FAR/JAR P.25.853 Inneneinrichtung Interior	(a)(1)(i) / (a)(1)(ii) ; vertical Non isotropic materials have to be tested length- and crosswise 305 x 75 x d D = end use thickness For different end use thicknesses, the minimum thickness has to be tested. Foams with > 13 mm thickness will be tested in 13 mm thickness. 21±3°C, 50±5% rHISO 554 (min. 24h)	3	California-Test 117 Section A, Part I
		(a)(1)(iv) / (a)(1)(v) ; horizontal Non isotropic materials have to be tested length- and crosswise 350 x 100 x d	3	FMVSS 302 (burning rate)

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list reference to similar standards
	IEC 60695-11-10 (horizontal) Prüfungen zur Beurteilung der Brandgefahr	125 +/- 5 mm x 13 +/- 5 mm x max. 13 mm Deburred edges, radius max. 1,3 mm (2x3) 23 +/- 2 °C, 50 +/- 5% rh	6	UL 94 HB (horizontal) - FMVSS 302 acc. to SAE <u>UL 94 HB</u> ASTM D 635 Richtlinie 97/24/EG Directive 97/24/EC Annex 1 Horizontal burning rate
	Prüfflammen – Prüfverfahren mit 50-W- Prüfflamme horizontal			
	ISO 1182 Non-Combustibility-Test	Ø 45 x 50, V: 80 cm³ The specimen must have an axial hole (internal diameter 2 mm) The length of the hole must be 25 mm (to the middle of the specimen). The bottom of the hole must be plane.	5	EN ISO 1182 (non combustibility test) <u>ISO 1182</u> EN ISO 1182 GB 3464-85 UNE 23-102 ÖNORM B 3800 (Entw. Beibl.) Non combustibility NT Fire 001 NEN 6064 JIS A 1321 Incombustibility-Test IMO (Res.A.472(XII)) DS 1056 BS 476 Part 4 bzw. Part 11 AS 1530; Part 1
	ISO 1716 Bestimmung der Verbrennungswärme	ISO 1716, Gross heat of combustion Performed by laboratory of BASF waste incineration. ca. 50 g Individual layers have to be tested separately. 23 +/- 2 °C, 50 +/- 5% rh, ISO 554 (24 h)	1	Heizwertbestimmung
		ISO 1716, Net heat of combustion ca. 50 g Individual layers have to be tested separately. 23 +/- 2 °C, 50 +/- 5% rh, ISO 554 (24 h)	1	Heizwertbestimmung
	ISO 3582 Flexible cellular polymeric materials - Laboratory assessment of horizontal burning characteristics of small specimens subjected to a small flame	Test earliest 78 hrs. after fabrication 150 x 50 x 5-13 Pre-conditioning at 23/50 or 27/65	10	UL 94 HBF /HF-1 /-2 (horizontal, Foam products)

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list <i>reference to similar standards</i>
	ISO 3795 KFZ-Insassenraumteile	356 x 100 x max.13	5	FMVSS 302 (burning rate) <u>FMVSS 302 acc. to TL 1010</u> Richtlinie 95/28/EG - Directive 95/28/EC Annex IV horizontal burning rate U.T.A.C St 18-502/1 2.1 Flame propagation JIS D 1201 DIN 75200 BS AU 169
	ISO 4589-2 Oxygen-Index-Test	Test specimen form I; for moulding materials [80-150] x [10 ± 0,5] x [4 ± 0,25] (in mm) 23 (+-2) °C / 50 (+-5) % rH ISO 554 (min. 88 h)	20	ISO 4589 (Oxygenindex, LOI) <u>ISO 4589-2</u> NT Fire 013 NES 714 JIS K 7201 BS 2782 Part 1
		Test specimen form II; for cellular materials [80-150] x [10 ± 0,5] x [10 ± 0,25] (in mm)	20	
		Test specimen form III; for sheet materials "as received" [80-150] x [10 ± 0,5] x [≤ 10,5] (in mm)	20	
		Test specimen form IV; alternative size for self-supporting moulding or sheet materials, for electrical purposes [70-150] x [6,5 ± 0,5] x [3 ± 0,25] (in mm)	20	
		Test specimen form V; for flexible film or sheet [140 +0 -5] x [52 ± 0,5] x [≤ 10,5] (in mm)	20	
		Test specimen form VI; for thin film "as received"; limited to the film that can be rolled by the specified rod 140 - 200 x 20 x 0,02 - 0,10 (in mm)	20	
	ISO 5658-2 Reaction to fire tests - Spread of flame Part 2: Lateral spread on building products in vertical configuration			ISO 5658-2 (Spread of flame)

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list <i>reference to similar standards</i>
		Product with orientation shall be tested in both directions. !! Please specify whether the test shall be performed with backing, or with air gap!! (800 +0/-5) x (155 +0/-5) x max. 70 mm 6 specimen for each orientation. Hoses and pipes: 800 mm long sections shall be arranged lengthwise into a test specimen so that the frame of 800 x 155 mm ist filled. Each test specimen shall consist of at least 2 sections. See ISO 5658-2:2006, Annex F. 23 +- 2 °C, 50 +- 5% rhISO 554 (conditioning to constant mass 0,1%)	6	
ISO 5659-2 Smoke Obscuration Test (NBS-Kammer, horizontal)		Determination of smoke density 25 kW/m ² without pilot flame 25 kW/m ² with pilot flame 50 kW/m ² without pilot flame 50 kW/m ² with pilot flame 3 tests for each irradiance level $75 \pm 1 \times 75 \pm 1 \times \text{max. } 25 \pm 0,1$ (mm) Maximum dimensions need to be respected! min 3 samples as spare 23 +- 2 °C, 50 +- 10% rhISO 554 (conditioning to constant mass)	12	ISO 5659-2 (smoke density test)
		Determination of smoke density at one irradiance level. 3 single tests $75 \pm 1 \times 75 \pm 1 \times \text{max. } 25 \pm 0,1$ (mm) Maximum dimensions need to be respected! 3 specimens for test, plus 5 as spare 23 +- 2 °C, 50 +- 10% rhISO 554 (conditioning to constant mass)	8	ISO 5659-2 (smoke density test) <u>ISO 5659-2 Determination of smoke density at one irradiance level.</u> ISO 5659-2
		25 kW/m ² , horizontal, flaming mode $75 \pm 1 \times 75 \pm 1 \times \text{max. } 25 \pm 0,1$ (mm) Maximum dimensions need to be respected! 3 samples as spare. 23/50ISO 554 (conditioning to constant mass)	6	ISO 5659-2 (smoke density test)
		Determination of smoke density and smoke toxicity		ISO 5659-2 (Smoke densitiy + FTIR-analysis)

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list <i>reference to similar standards</i>
		For EN 45545-2 or CEN/TS 45545: Please define irradiance (25 / 50 kW/m ²)! 75 ± 1 x 75 ± 1 x max. 25 ± 0,1 (mm) Maximum dimensions need to be respected! 3 specimens for test; plus 5 as spare. 23 +- 2 °C, 50 +- 10% rhISO 554 (conditioning to constant mass)	8	
		Determination of Smoke Gas Toxicity acc. to DIN 5510-2 Annex C 25 kW/m ² , horizontal, flaming mode 75 ± 1 x 75 ± 1 x max. 25 ± 0,1 (mm) Maximum dimensions need to be respected! Gas sampling at 4 and 8 minutes for each specimen for gas analysis. 3 samples as spare. 23/50ISO 554 (conditioning to constant mass)	6	ISO 5659-2 (Determination of Smoke Toxicity, DIN 5510-2)
ISO 5660-1	Rate of Heat Release (Cone-Calorimeter)	100 (+0/-2) x 100 (+0/-2) x max.50 Maximum dimensions need to be respected! 23 +- 2 °C, 50 +- 5% rhISO 554 (conditioning to constant mass 0,1%)	7	ISO 5660 (Cone-Calorimeter) <u>ISO 5660-1</u> <u>ISO 5660-2</u> AS/NZS 3837
ISO 5660-2	Rate of smoke release (Cone Calorimeter)	100 (+0/-2) x 100 (+0/-2) x max.50 (3 samples per irradiance level, plus 3 as spare) 23 +- 2 °C, 50 +- 5% rhISO 554 (conditioning to constant mass 0,1%)	9	ISO 5660 (Cone-Calorimeter) <u>ISO 5660-1</u> AS/NZS 3837
ISO 6940	Textile fabrics- Burning behaviour- Determination of ease of ignition of vertically oriented specimens	200 x 80 x d warp and fill direction (2x15)	30	Price per enquiry <u>ISO 6940</u> U.T.A.C. St 18-502/2 2.1 vertical test
ISO 6941	Textile fabrics- Burning behaviour- Measurement of flame spread properties of vertically orient. specimens	560 x 170 x d warp and fill direction (2x6)	12	Price per enquiry <u>ISO 6941</u> U.T.A.C. St 18-502/2 2.2 vertical burning rate

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list reference to similar standards
	ISO 9239			DIN 4102 -14 (B1, Flooring) 6 ASTM E 648 EN ISO 9239-1 DIN 4102 -14; Flooring test Schweizer Wegleitung Part B 2.4 Flooring NEN 1775 DIN 5510 Teil 2 SF1-SF3 acc. DIN 4102 T.14 or. ISO 9239-1 (Flooring test)
	Floor Coverings- Determination of Critical Radiant Flux Using a Radiant Heat Energy Source	1050 x 230 x d Length- and Crosswise (2x3) 23/50-2EN 13238 (min. 2 Wochen; od. je nach Prod. Bis zu 2 Monaten)		
	ISO 9772			UL 94 HBF /HF-1 /-2 (horizontal, Foam products) ISO 9772 ISO 9772
	Cellular plastics - Determination of horizontal burning characteristics of small specimen subjected to a small flame	150 ±10 x 50±1, x max 13 mm a) >=48h: 23 +2 °C/50 +-5 % rH; b) 168 h: 70+-2°C	20	
	UIC 564.2 Schienenfahrzeuge	Annex 12 Fire Resistance of floor coverings Floor covering on a substrate according to UIC 564-2 Annex 4, class A Substrate: 160 mm x 300 mm x 10 mm Floor covering: 160 mm x 300 mm x d 23/50-1ISO 554 (48h)	3	DIN 5510-2 (DB-Brandschacht)
		Annex 13 seats, paper cushion test Complete Seat with back, base, armrests, ...	3	DIN 5510-2 (paper-cushion-test), not vandalised
		150 x 50 x 5-13 2 samples lengthwise, 2 samples crosswise 23 +- 2 °C, 50 +- 5% rhISO 554 (min 16 hrs.)	4	UL 94 HBF /HF-1 /-2 (horizontal, Foam products)
	UIC Kodex 564-2 Vorschriften über Brandverhütung und Feuerbekämpfung für die im internationalen Verkehr eingesetzten Schienenfahrzeuge	Annex 6: Fire resistance of rubber gaskets for doors and windows 320 mm length Bunsen burner, Butane or Propane gas fired 23/50-1ISO 554	3	ASTM C 1166 (Lock-Strip Gaskets)

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list reference to similar standards
Italy				
	UNI 8456 Piccola fiamma	Combustible materials which can be exposed to a flame on both surfaces free hanging 340 x 104 x d five in production direction and five perpendicular to production direction	10	UNI 8456 (ital. small burner) <u>DIN 4102 - 1: (B2/B3)</u> EN ISO 11925-2 Annex A BS 5438 Test 2A. Limited flame spread: face ignition EN ISO 11925-2 Flame application 15 s or 30 s ÖNORM B 3800 (Entw.Beibl.) class B2, small burner test UNI 8457 Combustible materials which can be exposed to a flame on one surface
	UNI 8457 Piccola fiamma	Combustible materials which can be exposed to a flame on one surface free hanging 340 x 104 x d five in production direction and five perpendicular to production direction with backing board 340 x 104 x d	10	UNI 8457 (ital. small burner) <u>DIN 4102 - 1: (B2/B3)</u> UNI 8456 Combustible materials which can be exposed to a flame on both surfaces EN ISO 11925-2 Annex A BS 5438 Test 2A. Limited flame spread: face ignition EN ISO 11925-2 Flame application 15 s or 30 s ÖNORM B 3800 (Entw.Beibl.) class B2, small burner test
	UNI 9175 Reazione al Fuoco di Mobili imbottiti sottoposti all'Azione di piccola fiamma	Base upholstery (foam): 450 x 300 x d Base upholstery (foam): 450 x 450 x d Fabric: acc. to foam thickness: 800 x 650 x d	5	UNI 9175 (flame test) <u>BS 5852 Part 1-6</u> NT Fire 014 JIS A 1321 Surface-Test EN 1021 Part 2: small flame test EN 1021 Part 1: smouldering cigarette
Japan				
	JIS D 1201 Materials for Automobiles	350 x 100 x max.12	5	FMVSS 302 (burning rate) <u>FMVSS 302 acc. to TL 1010</u> Richtlinie 95/28/EG - Directive 95/28/EC Annex IV horizontal burning rate U.T.A.C St 18-502/1 2.1 Flame propagation ISO 3795 DIN 75200 BS AU 169

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list <i>reference to similar standards</i>
	JIS K 7201 Oxygen-Index-Test	solid materials 70-150 x 6,5 x 3 flexible materials, foams 140 x 52 x d	30 30	ASTM D 2863 (LOI) <u>ISO 4589-2</u> <i>NT Fire 013</i> <u>NES 714</u> <i>BS 2782 Part 1</i>
Nederland				
	NEN 1775 Bodenbeläge u.-beschichtungen	1050 x 230 x d	4	DIN 4102 -14 (B1, Flooring) <u>ASTM E 648</u> <i>EN ISO 9239-1</i> <i>DIN 4102 -14; Flooring test</i> <i>Schweizer Wegleitung Part B 2.4</i> <i>Flooring</i> <i>ISO 9239</i> <i>DIN 5510 Teil 2 SF1-SF3 acc. DIN</i> <i>4102 T.14 or. ISO 9239-1 (Flooring test)</i>
	incl. Rauchdichtemessung			
	NEN 21210 Determination of flammability of plastics in the form of bars	125 x 13 x 3	5	UL 94 HB (horizontal) <u>IEC 60065 Burner test</u> <i>ISO 1210 Method A - Determination of</i> <i>linear burning rate o horizontal</i> <i>specimens</i> <i>IEC 60695 Part 11-5: Needle flame test</i> <i>BS 415 Part 20.2</i>
	NEN 6064 Non-Combustibility-Test	Ø 45 x 50, V: 80 cm³	5	EN ISO 1182 (non combustibility test) <u>ISO 1182</u> <i>EN ISO 1182</i> <i>GB 3464-85</i> <i>UNE 23-102</i> <i>ÖNORM B 3800 (Entw.Beibl.) Non</i> <i>combustibility</i> <i>NT Fire 001</i> <i>JIS A 1321 Incombustibility-Test</i> <i>IMO (Res.A.472(XII))</i> <i>DS 1056</i> <i>BS 476 Part 4 bzw. Part 11</i> <i>AS 1530; Part 1</i>

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list reference to similar standards
Sweden				
	Volvo Standard 104-0001			FMVSS 302 (burning rate)
Flammability (burning behaviour) of interior materials 356 x 100 x max. 13 10 specimen in lengthwise and crosswise direction 23 +- 2 °C, 50 +- 5% rhISO 554 (min. 24 hrs, max. 7 d)				
Switzerland				
	Schweizer Wegleitung für Feuerpolizeivorschriften	Part B 2.4 Flooring 1050 x 250		DIN 4102 -14 (B1, Flooring) 6 <u>ASTM E 648</u> <u>EN ISO 9239-1</u> <u>DIN 4102 -14; Flooring test</u> <u>NEN 1775</u> <u>ISO 9239</u> <u>DIN 5510 Teil 2 SF1-SF3 acc. DIN 4102 T.14 or. ISO 9239-1 (Flooring test)</u>
Skandinavia				
	NT Fire 001 Non-Combustibility-Test	ø 45 x 50, V: 80 cm³		EN ISO 1182 (non combustibility test) 5 <u>ISO 1182</u> <u>EN ISO 1182</u> <u>GB 3464-85</u> <u>UNE 23-102</u> <u>ÖNORM B 3800 (Entw.Beibl.) Non combustibility</u> <u>NEN 6064</u> <u>JIS A 1321 Incombustibility-Test</u> <u>IMO (Res.A.472(XII))</u> <u>DS 1056</u> <u>BS 476 Part 4 bzw. Part 11</u> <u>AS 1530; Part 1</u>
	NT Fire 013 Oxygen-Index-Test	solid materials 80-150 x 6,5 x 3 films 140 x 52 x <10,5 foam products 80-150 x 10 x 10	30 30 30	ASTM D 2863 (LOI) 30 <u>ISO 4589-2</u> <u>NES 714</u> 30 <u>JIS K 7201</u> <u>BS 2782 Part 1</u>
	NT Fire 014 Furniture - Upholstered Seats: Ignitability	Base upholstery (foam): 450 x 300 x d Base upholstery (foam): 450 x 450 x d Fabric: acc. to foam thickness: 800 x 650 x d	3	BS 5852 (z.B.: Crib 5, Crib 7) 3 <u>BS 5852 Part 1-6</u> <u>JIS A 1321 Surface-Test</u> <u>EN 1021 Part 2: small flame test</u> <u>EN 1021 Part 1: smouldering cigarette</u> <u>UNI 9175</u>

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list reference to similar standards
Spain				
	UNE 23-102 Incombustibilidad	cylindrical samples Ø 45 x 50, V: 80 cm ³	5	EN ISO 1182 (non combustibility test) <u>ISO 1182</u> <u>EN ISO 1182</u> <u>GB 3464-85</u> <u>ÖNORM B 3800 (Entw.Beibl.) Non combustibility</u> <u>NT Fire 001</u> <u>NEN 6064</u> <u>JIS A 1321 Incombustibility-Test</u> <u>IMO (Res.A.472(XII))</u> <u>DS 1056</u> <u>BS 476 Part 4 bzw. Part 11</u> <u>AS 1530; Part 1</u>
	UNE 23-721 Radiacion	The exposed surface of sandwich panels has to be grooved (2 mm). The groove should be placed from the middle of the narrow side 180 mm in direction of the sample centre parallel to the long side.	4	NF P 92-501 (Epiradiateur)
		400 x 300 x d		
	UNE 23-723 Quemador electrico	600 x 180 x max.5	4	NF P 92-503 (electrical burner) <u>NF P 92-503</u> <u>U.T.A.C St 18-502/1 2.3 electrical burner</u>
	UNE 23-725 Goteo aplicable a los materiales fusibles	70 x 70 x d	4	NF P 92-505 (dripping test) <u>NF P 92-505</u> <u>Richtlinie 95/28/EG - Directive 95/28/EC Annex V</u> <u>Dripping test</u> <u>U.T.A.C St 18-502/1 2.2 Dripping test</u>
USA				
	ASTM C 542 Lock Strip Gaskets	460 x 25 x 13	6	ASTM C 1166 (Lock-Strip Gaskets)
	(Prüfung nach ASTM C 1192)			
	ASTM D 2863 Oxygen-Index-Test			ISO 4589 (Oxygenindex, LOI)

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list <i>reference to similar standards</i>
		Test specimen form I; for moulding materials 80-150 x 10,0 x 4,0	30	ASTM D 2863 <i>ISO 4589-2</i>
		Test specimen form II; for cellular materials 80-150 x 10,0 x 10,0	30	
		Test specimen form III; for sheet materials "as received" 80-150 x 10,0 x <= 10,5	30	
		Test specimen form IV; alternative size for self-supporting moulding or sheet materials, for electrical purposes 70-150 x 6,5 x 3	30	
		Test specimen form V; for flexible film or sheet 140 x 52 x <= 10,5	30	
		Test specimen form VI; for thin film "as received"; limited to the film that can be rolled by the specified rod 140 - 200 x 20 x 0,02 - 0,10	30	
ASTM D 3874-90a	Hot Wire Ignition			IEC 60695-2-10 (Glow-wire-test)
Standard Test Method for Ignition of Materials by Hot Wire Sources		125 x 12,5 x d 23/50-1ISO 554 (min. 40 h)	5	
ASTM D 635		3 single tests 125 +/- 5 mm x 13 +/- 0,5 mm x d 23 +/- 2 °C, 50 +/- 5% rh ASTM D 618 (min 48h)	10	UL 94 HB (horizontal) UL 94 HB <i>IEC 60695-11-10 (horizontal)</i> <i>Richtlinie 97/24/EG</i> <i>Directive 97/24/EC Annex 1</i> <i>Horizontal burning rate</i> IEC 60695-11-10 (horizontal) <i>UL 94 HB</i>
ASTM E 1354		100 x 100 x max. 50 (3 samples per irradiance level) 23 +/- 2 °C, 50 +/- 5% rh ISO 554 (conditioning to constant mass)	3	ISO 5660 (Cone-Calorimeter)
ASTM E 1354		Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter		
ASTM E 662		Specific Optical Density of Smoke Generated by Solid Materials		ASTM E 662 (NBS - Smoke Box)

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list reference to similar standards
		other materials 75 x 75 x max.25 (per standard: 76,2 x 76,2, +0, -0,8 mm, x max. 25,4 mm) 3 tests for each mode If the difference between the highest and the lowest value is more than 50%, further tests have to be carried out. 23 +- 2 °C, 50 +- 5% rhISO 554 (conditioning to constant mass) flexible foams 75 x 75 x 12,5 3 tests for each mode If the difference between the highest and the lowest value is more than 50%, further tests have to be carried out.	12	ASTM E 662 BS 6853 Annex B.2 Area based test method ABD 0031 Chapter 7-3 and 7-4 NFPA 258 Smoke Generation of Solid Materials NF X 10-702 BS 6401
Boston-Chair-Test				DIN 5510-2 (paper-cushion-test), not vandalised
		Base upholstery (foam): 450 x 450 x 100 Base upholstery (foam): 450 x 450 x 100	3	
California Technical Bulletin No.117, 2000		Section A: Cellular Materials 305 x 75 x 13 2 x (2x5) Set A: min 25 h 23/50; Set B: 24 h / 104°C, + 6 h 23/50	10	California-Test 117 Section A, Part I
		Section D: Cigarette Resistance Base upholstery (foam): 203 x 183 x 51 mm Base upholstery (foam): 203 x 102 x 51 mm Fabric: 150 x 150 mm	10	EN 1021-1 (smouldering cigarette)
California Technical Bulletin No.117, 2013, Section 3		Requirements, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture - Resilient filling material test 3 single tests, plus 3 additional tests 1 specimen of the first set fails the test Foam: Back: 203 x 203 mm, seat 203 mm x 127 mm, thickness 51 mm Fabric: Back: 203 x 381 mm, Seat: 203 x 203 mm Fabric (Standard Type I cover) can be supplied by test lab 23 ± 3 °C, < 55% r.H. (min. 24h)	6	Smolder Resistance of Materials Used in Upholstered Furniture

List of available test methods

Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list reference to similar standards
	FMVSS 302 US-Federal Motor Vehicle Safety Standard No.302	acc. to SAE -1,54DIN 50014 (-1,54) 356 x 100 x max. 13 Non isotropic materials shall be tested length- and crosswise (5 specimens each). The thickness of the test specimen shall represent the thickness of the product to be tested. The test specimen shall have a constant cross section over the full length. 21°C, 50% rHISO 554 (24 h)		FMVSS 302 (burning rate) - <i>IEC 60695-11-10 (horizontal)</i> 5 <u>FMVSS 302 acc. to TL 1010</u> <i>Richtlinie 95/28/EG - Directive 95/28/EC Annex IV horizontal burning rate</i> <i>U.T.A.C St 18-502/1 2.1 Flame propagation</i> <i>JIS D 1201</i> <i>ISO 3795</i> <i>DIN 75200</i> <i>BS AU 169</i>
	NFPA 258 Recommended Practice for Determining Smoke Generation of Solid Material (withdrawn 01.01.2006)	Smoke Generation of Solid Materials 76 x 76 x max.25	8	ASTM E 662 (NBS - Smoke Box) <u>ASTM E 662</u> <i>BS 6853 Annex B.2 Area based test method</i> <i>ABD 0031 Chapter 7-3 and 7-4</i> <i>NF X 10-702</i> <i>BS 6401</i>
	UL 94 Flammability of Plastic Materials for Parts in Devices and Appliances	5-V Method A (Bars and plaques), incl. heat ageing 25 bars of 125+-5 x 13+-0,5 x d 15 plaques of 150+-5 x 150+-5 x d a) (2x5) unconditioned, (2x5) conditioned, + 5 spare b) (2x3) unconditioned, (2x3) conditioned, + 3 spare 23 +- 2 °C, 50 +- 5% rh, ISO 291 (48h (+ 7 d @ 70°C)) Method A (Bars and plaques), w/o heat ageing a) 12 bars of 125+-5 x 13+-0,5 x d b) 7 plaques of 150+-5 x 150+-5 x d a) (2x5) + 2 spare b) (2x3) + 1 spare 23 +- 2 °C, 50 +- 5% rhISO 291 (min. 48 h)	40	UL 94 5-V (vertical, sheets and rods) <u>UL 94 5-V</u> <i>UL 94 5-VB</i> <i>ISO 10351</i> 19
		5-VB Method B (bars), incl. heat ageing 125 +/-5 mm x 13 +/- 0,5 mm x d (2x5) unconditioned, (2x5) conditioned, + 5 spare 23 +- 2 °C, 50 +- 5% rhISO 291 (min 48h)	25	UL 94 5-V (vertical, sheets and rods) <u>UL 94 5-V</u> <i>ISO 10351</i>
		HB		UL 94 HB (horizontal)

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Country	Standard	Variants Dimensions Conditioning	number of specimens required	reference to the price-list reference to similar standards
	UL 94 HB	125 +/-5 mm x 13 +/- 0,5 mm x max. 13 mm Smooth edges, radius on the corners max. 1,3 mm (2x3) 23 +- 2 °C, 50 +- 5% rhISO 554 (min 48h)	6	<u>UL 94 HB</u> ASTM D 635 IEC 60695-11-10 (<i>horizontal</i>) Richtlinie 97/24/EG Directive 97/24/EC Annex 1 Horizontal burning rate <u>IEC 60695-11-10 (<i>horizontal</i>)</u> ASTM D 635
	HBF / -HF-1/-2 (foams)			UL 94 HBF /HF-1 /-2 (horizontal, Foam products)
	UL 94 HBF / -HF-1/-2 (foams)	150 x 50 x 6- max. 13 (2x5) unconditioned (2x5) conditioned 23/50-1ISO 554 (48h (+ 70°C 7d))	20	
	V-0/ -1/ -2			UL 94 5-V (vertical, sheets and rods)
	Samples tested as received (no drying oven)		12	<u>UL 94 V-0/ -1/ -2</u> DIN EN 60695-11-10 IEC 60695-11-10 (<i>vertikal</i>) ISO 1210 Method B - Determination of afterflame and/or afterglow times on vertical specimens
	125 +/-5 mm x 13 +/- 0,5 mm x max. 13 mm Smooth edges, radius on the corners max. 1,3 mm (2x5) unconditioned 23/50,ISO 554 (48h)			
	Standard: Test of 5 specimens each after conditioning with and without ageing @ 70°C		25	
	125 +/-5 mm x 13 +/- 0,5 mm x max. 13 mm Deburred edges, radius max. 1,3 mm (2x5) unconditioned (2x5) conditioned 23/50-1ISO 554 (48h (+ 70°C 7d))			

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ASTM E 1354	USA
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