

We light fires  
so they do not happen to others.



The demonstration illustrated shows what a great difference those all important extra safety precautions make: after just 60 seconds, the conventional textile furnishings (right) are ablaze, while Trevira CS (left) melts away slowly without creating any flames.



The small burner test is used in the fire testing of decorative fabrics, applying British Standard Norm BS 5438.



In France, textiles must pass test NF P 92501, the "Brûleur électrique", one of the most stringent burning tests in the world.



For the contract fabric sector, the prescribed tests use different ignition sources - like this one with a burning crib on top of the furniture upholstery (BS 5852 Part 2, crib 5).



The Trevira CS trademark is only awarded to fabrics which satisfy the strict conditions of DIN 4102, Category B1, Flame retardant.

Fire safety  
without making you see red.

TC474 E-02/06/RIL • Trevira® registered trademark



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Member Reliance Group



# Fire testing standards for home textiles.

STANDARDS											APPLICATION	IGNITION SOURCE	KIND OF IGNITION	CLASSIFICATION CRITERIA	TEST SPECIMEN	BURN CLASSIFICATION	ACHIEVABLE FOR TREVIRA CS	REMARKS	TEST INSTITUTES
Germany  Deutsches Institut für Normung e.V. (DIN) Postfach D-10772 Berlin www.din.de	DIN 4102 Part 1	Buildings, building materials, decorative fabrics, upholstery materials	B2 small burner (propane flame), B1 fire chamber (methane flame)	Edge ignition, edge ignition	Damaged surface, average undamaged length left 150 mm, fume temp. max. 200 °C	Textile fabric	B3 slightly flammable, B2 normal flammable, B1 flame retardant, A1 inflammable	B1	General approval available										
	DIN EN 13772/13773	Decorative fabrics / drapes	Radiator and small burner (propane flame)	Radiation, edge ignition	Ignition, burning debris falling from specimen, flame spread (1-3 marker thread)	Textile fabric	1 (highest requirement) 5 (lowest requirement)	1											
	DIN 66084	Upholstered furniture, upholstered in track vehicles	Paper cushion 100 g (Pa), butane flame (Pb), cigarette (Pc)	In fold between seat and back padding	After burn time, damaged surface	Original upholstered furniture or standard chair	Pa, Pb, Pc	Pa	Class Pa achieved with the use of flame retardant foam										
	DIN EN 1021 Part 1+2	Upholstery materials	Cigarette, butane flame	In fold between seat and back padding	Flame spread, damaged surface	Standard chair with upholstery	Pass / fail	Pass	Foam thickness of more than 30 kg/m³ recommended										
	DIN EN 14533	Bed linen	Cigarette, small flame	Dependent on test specimen	Ignition	Textile fabric	A, B, C												
Austria  Österreichisches Normungsinstitut (ON) Heinestraße 38 A-1020 Wien www.on-norm.at	ÖNORM A 3800-1 Part 1	Curtains, decorative fabrics, upholstery materials	B1 Schlyter burner (propane gas mixture)	Surface ignition	Damaged surface, length remaining min. 40 cm	Textile fabric	Flame retardant, droplet formation classes, fume formation classes	B1, Q1, 2	General approval available: Fume emission classification, Q1 slight emission, Q2 normal emission, Q3 high emission, droplet formation classification for decorative fabrics / drapes to EN 13772/EN 13773										
	ÖNORM B 3825	Upholstered furniture	Modified fire chamber (propane flame)	In fold between seat and back padding	Burn time, flame spread, after burn time, after glow time, side effects of fire	Standard chair with upholstery	Flame retardant, normal ignitable, easily ignitable	Flame retardant											
	ÖNORM EN 13772/13773	Decorative fabrics / drapes	Radiator and small burner (propane flame)	Radiation, edge ignition	Ignition, burning debris falling from specimen, flame spread (1-3 marker thread)	Textile fabric	1 (highest requirement) 5 (lowest requirement)	1											
	ÖNORM EN 1021 Part 1+2	Upholstery materials	Cigarette, butane flame	In fold between seat and back padding	Flame spread, damaged surface	Standard chair with upholstery	Pass / fail	Pass	Foam thickness of more than 30 kg/m³ recommended										
	ÖNORM EN 14533	Bed linen	Cigarette, small flame	Dependent on test specimen	Ignition	Textile fabric	A, B, C												
Switzerland  Schweizerische Normen-Vereinigung (SNV) Bürgstrasse 29 CH-8400 Winterthur www.snv.ch	SN EN 1021 Part 1+2	Upholstery materials	Cigarette, butane flame	In fold between seat and back padding	Flame spread, damaged surface	Standard chair with upholstery	Pass / fail	Pass	Foam thickness of more than 30 kg/m³ recommended										
	SN EN 13772/13773	Decorative fabrics / drapes	Radiator and small burner (propane flame)	Radiation, edge ignition	Ignition, burning debris falling from specimen, flame spread (1-3 marker thread)	Textile fabric	1 (highest requirement) 5 (lowest requirement)	1											
	SN EN 14533	Bed linen	Cigarette, small flame	Dependent on test specimen	Ignition	Textile fabric	A, B, C		A Class 2, 3										
	NF P 92501-7	Building materials, decorative fabrics, upholstery materials, curtains	Radiator and small burner (propane flame), brûleur électrique	Radiation and surface ignition	After burn time max. 5 secs., damaged surface, flame spread, droplets	Textile fabric	M0 non ignitable, M1 inflammable, M2 flame retardant, M3 ignitable, M4 slightly flammable	M1	If burning droplets fall off, the classification allocated is M4										
	NF EN 1021 Part 1+2	Upholstery materials	Cigarette, butane flame	In fold between seat and back padding	Flame spread, damaged surface	Standard chair with upholstery	Pass / fail	Pass	Foam thickness of more than 30 kg/m³ recommended										
France, Belgium, Luxembourg  Association Française de Normalisation (AFNOR) 11, avenue Francis de Pressensé F-93571 Saint-Denis La Plaine Cedex www.afnor.org	NF EN 13772/13773	Decorative fabrics / drapes	Radiator and small burner (propane flame)	Radiation, edge ignition	Ignition, burning debris falling from specimen, flame spread (1-3 marker thread)	Textile fabric	1 (highest requirement) 5 (lowest requirement)	1											
	NF EN 14533	Filled bedding	Cigarette	Dependent on test specimen	Ignition	Textile fabric	A, B, C		A										
	NF EN 14533	Bed linen	Cigarette, small flame	Dependent on test specimen	Ignition	Textile fabric	A, B, C		A										
	BS 5438, BS 5867	Textiles (general), curtains, decorative fabrics	Small burner	Surface ignition	Burn time, char length, after flame time, after glow time	Textile fabric	Type A (slight requirement), type B (average requirement), type C (high requirement)	Part 2, type C											
	BS EN 1021 Part 1+2	Upholstery materials	Cigarette, butane flame	In fold between seat and back padding	Flame spread, damaged surface	Standard chair with upholstery	Pass / fail	Pass	Applicable to the private sector: the Consumer Protection Act Nr. 1324 prescribes testing on normal flammable foam.										
Great Britain  British Standards Institution (BSI) 389 Chiswick High Road GB-London, W4 4AL www.bsi-global.com	BS 5852 Part II	Upholstery materials	Crib 5, Crib 7	Combustion of wooden crib of defined size	Burn time	Upholstered piece of furniture, standard chair	Pass / fail	Pass	Foam thickness of more than 30 kg/m³ recommended										
	BS EN 13772/13773	Decorative fabrics / drapes	Radiator and small burner (propane flame)	Radiation, edge ignition	Ignition, burning debris falling from specimen, flame spread (1-3 marker thread)	Textile fabric	1 (highest requirement) 5 (lowest requirement)	1	Trevira CS fabrics pass this test for the contract sector in combination with appropriate flame retardant foam materials or interliner										
	BS EN 14533	Bed linen	Cigarette, small flame	Dependent on test specimen	Ignition	Textile fabric	A, B, C		A										
	UNI VF 8456	Curtains	Small burner	Edge ignition	After burn time	Textile fabric	I (flame retardant), II (flammable), III (easily flammable), IV (ignitable), V (easily ignitable)	I											
	UNI VF 8457	Home textiles	Small burner	Edge ignition	After burn time	Textile fabric	I (flame retardant), II (flammable), III (easily flammable), IV (ignitable), V (easily ignitable)	I											
Italy  Ente Nazionale Italiano di Unificazione (UNI) Via Battistotti Sassi, 11b I-20133 Milano MI www.uni.com	UNI VF 9174	Home textiles / curtains	(propane flame) Radiant panel	Surface ignition	After glow time, damaged surface, dripping melt	Textile fabric	I (flame retardant), II (flammable), III (easily flammable), IV (ignitable), V (easily ignitable)	I											
	UNI VF 9175	Upholstery materials	Small burner (propane flame)	In fold between seat and back padding	After burn time	Textile fabric	Class 1IM to 3IM	I, IM	In combination with upholstery of the same burn classification										
	UNI EN 1021 Part 1+2	Upholstery materials	Cigarette, butane flame	In fold between seat and back padding	Flame spread, damaged surface	Standard chair with upholstery	Pass / fail	Pass	Foam thickness of more than 30 kg/m³ recommended										
	UNI EN 13772/13773	Decorative fabrics / drapes	Radiator and small burner (propane flame)	Radiation, edge ignition	Ignition, burning debris falling from specimen, flame spread (1-3 marker thread)	Textile fabric	1 (highest requirement) 5 (lowest requirement)	1											
	UNI EN 14533	Bed linen	Cigarette, small flame	Dependent on test specimen	Ignition	Textile fabric	A, B, C		A										
Spain  Asociación Española de Normalización y Certificación (AENOR) Génova, 6 E-28004 Madrid www.aenor.es	UNE 23721-27	Building materials, decorative fabrics, upholstery materials, curtains	Radiator and small burner (propane flame)	Radiation and surface ignition	After burn time max. 5 secs., damaged surface, flame spread, dripping melt	Textile fabric	M0 non ignitable, M1 inflammable, M2 flame retardant, M3 flammable, M4 slightly flammable	M1	If burning droplets fall off, the classification allocated is M4										
	UNE EN 1021 Part 1+2	Upholstery materials	Cigarette, butane flame	In fold between seat and back padding	Flame spread, damaged surface	Standard chair with upholstery	Pass / fail	Pass	Foam thickness of more than 30 kg/m³ recommended										
	UNE EN 13722/13773	Decorative fabrics / drapes	Radiator and small burner (propane flame)	Radiation, edge ignition	Ignition, burning debris falling from specimen, flame spread (1-3 marker thread)	Textile fabric	1 (highest requirement) 5 (lowest requirement)	1											
	UNE EN 14533	Bed linen	Cigarette, small flame	Dependent on test specimen	Ignition	Textile fabric	A, B, C		A										
	NEN 6065	Curtains, decorative fabrics (building products)	Radiant panel	Radiation	Speed of flame spread	Textile fabric													