

4 Surface Testing (DD)

4.1 Surface resistance under Mechanical, Chemical and Thermal Load *

Test type	Measured variable / Test parameters	Measuring and testing range	Testing standard / Characteristic processes
Abrasion resistance	Rotations [number]	0 ... 99999	DIN EN 438-2; DIN EN 660-2; DIN EN 13329; DIN EN 13696; DIN EN 14323; DIN EN 14354; DIN EN 15185; DIN EN 15468; ISO 24338
	Mass [mg]	0 ... 500 g	
Scratch resistance	Force [N]	0.1 ... 10 N circular	DIN EN 15186; DIN EN 438-2; DIN EN ISO 1518-1; DIN EN 14323 ÖNORM A 1605-12
	Width of scratch mark [µm]	1 ... 20 N linear	
Impact resistance	Drop height [mm]	large sphere: 50 ... 1900 small sphere: 10 ... 600	DIN EN 438-2; DIN EN ISO 4211-4; DIN EN 13696; ISO 24335; IHD-W-425; ÖNORM A 1605-12
	Force [N]	0 ... 90	
	Diameter of mark of impact [mm]	0 ... 38 (42)	
	Visual evaluation (cracks)	not visible / visible	
Resistance to micro-scratches	Gloss	20°: > 70 GU 60°: 0 – 100 GU 85°: < 10 GU	DIN EN 438-2; DIN EN 16094 DIN CEN/TS 16611; IOS-TM-0002 IHD-W-466
	Visual evaluation of scratches	Evaluation levels	

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Test type	Measured variable / Test parameters	Measuring and testing range	Testing standard / Characteristic processes
Resistance to stains through chemical/ thermal load	Visual evaluation of existing changes to the surface (visibility of stains) [in degrees]	No change ... strong change Degree 0 (1) ... 5	DIN 68861-1; DIN EN 438; DIN EN 12720; DIN EN 13442; DIN EN 14323; DIN EN 12721; DIN EN 12722; DIN EN ISO 4211; DIN EN ISO 4211-2; DIN EN ISO 4211-3; IHD-W-427; IHD-W- 460; IHD-W- 477; IHD-W-481

*) smallest achievable uncertainty of measurement as regards the measured value

DIN 53160-1 2010-10	Determination of the colourfastness of articles for common use - Part 1: Test with artificial saliva
DIN 53160-2 2010-10	Determination of the colourfastness of articles for common use - Part 2: Test with artificial sweat
DIN 68861-1 2011-01	Furniture surfaces - Part 1: Behaviour at chemical influence
DIN EN 424 2002-04	Resilient floor coverings - Determination of the effect of simulated movement of a furniture leg
DIN EN 425 2002-08	Resilient and laminate floor coverings - Castor chair test
DIN EN 438-2 2016-06	High-pressure decorative laminates (HPL) - Sheets based on thermosetting resins (usually called laminates) - Part 2: Determination of properties
DIN EN 660-2 Amendment 1 2003-06	Resilient floor coverings - Determination of wear resistance - Part 2: Frick-Taber test
DIN EN 1399 1998-02	Resilient floor coverings - Determination of resistance to stubbed and burning cigarettes

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DIN EN 12720 2014-02	Furniture - Assessment of surface resistance to cold liquids
DIN EN 12721 2014-02	Furniture - Assessment of surface resistance to wet heat
DIN EN 12722 2014-02	Furniture - Assessment of surface resistance to dry heat
DIN EN 13329 2017-12	Laminate floor coverings - Elements with a surface layer based on aminoplastic thermosetting resins - Specifications, requirements and test methods
DIN EN 13442 2013-05	Wood flooring and wood panelling and cladding - Determination of the resistance to chemical agents
DIN EN 13489 2003-05	Wood flooring - Multi-layer parquet elements
DIN EN 13696 2009-02	Wood flooring - Test methods to determine elasticity and resistance to wear and impact resistance
DIN EN 13845 2017-10	Resilient floor coverings - Polyvinyl chloride floor coverings with particle based enhanced slip resistance - Specification
DIN EN 14323 2017-07	Wood-based panels - Melamine faced boards for interior uses - Test methods
DIN EN 14354 2017-11	Wood-based panels - Wood veneer floor coverings
DIN EN 15185 2011-07	Furniture - Assessment of the surface resistance to abrasion
DIN EN 15186 2012-01	Furniture - Assessment of the surface resistance to scratching
DIN EN 15468 2016-08	Laminate floor coverings - Elements with directly applied printing and resin surface layer - Specifications, requirements and test methods
DIN EN 16094 2012-04	Laminate floor coverings - Test method for the determination of micro-scratch resistance

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DIN EN ISO 1518-1 2011-09	Paints and varnishes - Determination of scratch resistance - Part 1: Constant-loading method
DIN CEN/TS 16611 2016-08	Furniture - Assessment of the surface resistance to microscratching
ISO 4211 1979-09	Furniture - Assessment of surface resistance to cold liquids
ISO 4211-2 2013-05	Furniture - Tests for surface finishes - Part 2: Assessment of resistance to wet heat
ISO 4211-3 2016-05	Furniture - Tests for surface finishes - Part 3: Assessment of resistance to dry heat
ISO 4211-4 1988-07	Furniture - Tests for surfaces - Part 4: Assessment of resistance to impact
ISO 24335 2006-03	Laminate floor coverings - Determination of impact resistance
ISO 24338 2014-12	Laminate floor coverings - Determination of abrasion resistance
IHD-W-423 2006-06	Bestimmung der Beständigkeit von leimfreien Verbindungssystemen an Fußböden oder verklebten Elementen bei mechanisch-dynamischer Belastung [Determination of the durability of the tongue and groove joints of laminate floorings and other floorings]
IHD-W-425 2016-03	Ermittlung der Stoßfestigkeit von Oberflächen [Determination of the impact resistance of surfaces]
IHD-W-427 2006-06	Möbel- und Fußböden - Ermittlung der Verschmutzungsneigung von Oberflächen [Furniture and flooring – Determination of the pollution resistance of surfaces]
IHD-W-460 2009-06	Bestimmung der Chemikalienbeständigkeit von Dekorfinishfolien [Determination of the chemical resistance of decor finish foils]
IHD-W-461 2009-06	Bestimmung der Abriebfestigkeit von Dekorfinishfolien [Determination of the resistance of decor finish foils to abrasion]
IHD-W-462 2009-06	Bestimmung der Kratzfestigkeit von Dekorfinishfolien [Determination of the scratch resistance of decor finish foils]

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IHD-W-466 2010-12	Bestimmung der Beständigkeit gegen Mikrokratzer bei Möbeloberflächen [Determination of resistance to micro-scratches of furniture surfaces]
IHD-W-467 2011-02	Determination of the abrasion resistance of printed floorings with grit feeder method
IHD-W-470 2017-07	Bestimmung der Kantenstoßfestigkeit von Türblättern [Determination of the edge impact resistance of door leaves]
IHD-W-471 2014-02	Bestimmung der Wischbeständigkeit von Türoberflächen [Determination of the wipe resistance of door surfaces]
IHD-W-475 2016-04	Bestimmung der Beständigkeit gegen Aufpolieren bei Laminatfußböden [Determination of the polishing resistance of laminate floor coverings]
IHD-W-477 2016-04	Bestimmung der Verschmutzungsneigung von Holzfußböden mit nicht filmbildenden Beschichtungen [Determination of the pollution resistance of wooden floors with non-filmforming coatings]
IHD-W-479 2016-04	Bestimmung der Abriebfestigkeit von Laminatbodenbelägen [Determination of the abrasion resistance of laminate floor coverings]
IHD-W-481 2016-04	Bestimmung der Beständigkeit gegenüber kalten Flüssigkeiten von Holzfußböden mit nicht filmbildenden Beschichtungen [Determination of the resistance to cold liquids of wooden floors with no film-forming coatings]
IOS-TM-0002 Version: AA-14884-10 2014-11	Surface resistance test methods
NALFA Standards Publication LF01-2011	Laminate Flooring - Specifications and Test Methods - North American Laminate Flooring Association
ÖNORM A 1605-12 2016-06	Furniture - Testing specifications - Part 12: Furniture surfaces
ÖNORM C 2350 2016-08	Coating materials for coating systems applied on dimensionally stable exterior building constructions of wood - Minimum requirements and tests
ÖNORM C 2354 2009-03	Transparent sealing materials for wooden floors and sealings made thereof - Minimum requirements and test methods

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4.2 Determination of Surface Characteristics *

Testing- and measuring devices / processes	Measurement parameters	Measurement range	Testing standard / Characteristic processes
Slip meter	Sliding friction coefficient μ	Friction value μ : 0.01...1	DIN 13893; DIN 51131: DIN EN 15534-1 CEN/TS 16165 Process D
Pendulum testing device	Slip / swinging length (pendulum test value)	0 ... 150 units	EN 1339 V DIN CEN/TS 15676 IHD-W-468 BS 7976-2 CEN/TS 16165 Process C
Testing equipment (inclined plane) with safety equipment	Total acceptance angle [°]	0°45°	DIN 13845; DIN 51097; DIN 51130 DIN EN 15534-1 CEN/TS 16165 Processes A and B

DIN 51097 1992-11	Testing of floor coverings - Determination of the anti-slip properties - Wet-loaded barefoot areas; walking method - Ramp test
DIN 51130 2014-02	Testing of floor coverings - Determination of the anti-slip property - Workrooms and fields of activities with slip danger, walking method - Ramp test
DIN 51131 2014-02	Testing of floor coverings - Determination of the anti-slip property - Method for measurement of the sliding friction coefficient
DIN 53236 1983-01	Testing of colouring materials - Conditions of measurement and evaluation for the determination of colour differences for paint coatings, similar coatings and plastics
DIN EN 382-1 1993-08	Fibreboards - Determination of surface absorption - Test method for dry process fibreboards
DIN EN 1339 2003-08	Concrete paving flags, requirements and test methods Annex I (normative)
E DIN EN 1339 2010-08	Process for the determination of the slip resistance value of unpolished spaces (USRV)

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DIN EN 13721 2004-10	Furniture - Assessment of the surface reflectance
DIN EN 13722 2004-10	Furniture - Assessment of the surface gloss
DIN EN 13893 2003-02	Resilient, laminate and textile floor coverings - Measurement of dynamic coefficient of friction on dry floor surfaces
DIN EN 20105-A02 1994-10	Textiles - Tests for colour fastness - Part A02: Grey scale for assessing change in colour
V DIN CEN/TS 15676 2008-02	Wood flooring - Slip resistance - Pendulum test
DIN CEN/TS 16165 2012-07	Determination of slip resistance of pedestrian surfaces – Method of evaluation
DIN EN ISO 105-X12 2016-11	Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing
DIN EN ISO 1522 2007-04	Paints and varnishes - Pendulum damping test
DIN EN ISO 2409 2013-06	Paints and varnishes - Cross-cut test
DIN EN ISO 2808 2007-05	Paints and varnishes - Determination of film thickness
DIN EN ISO 2813 2015-02	Paints and varnishes - Determination of specular gloss of non-metallic paint films at 20°, 60° and 85°
DIN EN ISO 3668 2001-12	Paints and varnishes - Visual comparison of the colour of paints
DIN EN ISO 4624 2016-08	Paints and varnishes - Pull-off test for adhesion
DIN EN ISO 9117-5 2012-11	Paints and varnishes - Drying tests - Part 5: Modified Bandow-Wolff test

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DIN EN ISO 4628-1 2016-07	Paints and varnishes - Valuation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 1: General introduction and designation system
DIN EN ISO 4628-2 2016-07	Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 2: Assessment of degree of blistering
DIN EN ISO 4628-3 2016-07	Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 3: Assessment of degree of rusting
DIN EN ISO 4628-4 2016-07	Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 4: Assessment of degree of cracking
DIN EN ISO 4628-5 2016-07	Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 5: Assessment of degree of flaking
DIN EN ISO 4628-6 2011-12	Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 6: Assessment of degree of chalking by tape method
DIN EN ISO 4628-7 2016-07	Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 7: Assessment of degree of chalking by velvet method
DIN EN ISO 6504-3 2007-05	Paints and varnishes - Determination of hiding power - Part 3: Determination of contrast ratio of light-coloured paints at a fixed spreading rate
DIN EN ISO 14577-1 2015-11	Metallic materials - Instrumented indentation test for hardness and materials parameters - Part 1: Test method
DIN EN ISO 11998 2006-10	Paints and varnishes - Determination of wet-scrub resistance and cleanability of coatings
IHD-W-454 2009-06	Bestimmung der Dicke von Dekorfinishfolien [Determination of the thickness of decor finish foils]
IHD-W-455 2009-06	Bestimmung der flächenbezogenen Masse von Dekorfinishfolien [Determination of the grammage of decor finish foils]

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IHD-W-456 2009-06	Bewertung des Oberflächenglanzes von Dekorfinishfolien [Evaluation of the surface gloss of decor finish foils]
IHD-W-458 2009-06	Bestimmung der Opazität von Dekorfinishfolien [Determination of the opacity of decor finish foils]
IHD-W-459 2009-06	Bestimmung der Oberflächenspannung von Dekorfinishfolien (Testtintenmethode) [Determination of the surface tension of decor finish foils (test ink method)]
IHD-W-463 2009-06	Bestimmung der Tesafestigkeit von Dekorfinishfolien [Determination of the Tesa-adhesive strength of decor finish foils]
IHD-W-464 2009-06	Bewertung der Haftfestigkeit von Dekorfinishfolien [Evaluation of the adhesive strength of decor finish foils]
IHD-W-465 2010-09	Bestimmung der Dunkelvergilbungsneigung [Determination of dark yellowing]
IHD-W-468 2011-03	Bestimmung der Rutschfestigkeit von Oberflächen für den Außenbereich nach dem Pendelverfahren [Determination of slip resistance of surfaces for outside by the pendulum method]
VFF Data Sheet HO.03 2012-07	Anforderungen an Beschichtungssysteme für die werksseitige Beschichtung von Holz- und Holz-Metall-Fenstern, -Haustüren und -Fassaden [Requirements for coating systems for the in-factory coating of wood and wood/metal windows, house doors and façades]

4.3 Environmental Simulations*

Testing- and measuring devices	Measurement parameters	Measurement range	Testing standard / Characteristic processes
Climatic chambers/ temperature test chambers/ climate chambers/	Evaluation according to: climatic ageing/ thermal ageing	KPK 400: -40 °C ... 95 °C 10 % ...95 % KPK 800: -40 °C ... 180 °C 10 % ... 95 % Climate chamber: 20 °C ... 30 °C 20 % ... 90 % Temperature test chamber: 30 °C ... 220 °C Floor heating cell 20 °C ... 30 °C 20 % ... 85 %	DIN 68930; ISO 24339; IHD-W-473; AMK Data Sheet 001; AMK Data Sheet 005
Exposure / weathering devices with xenon lamp	Irradiance at 300-400 nm	35 ... 136 W/m ² (S Boro/ Soda Lime filters) 40 ... 150 W/m ² (S Boro/S Boro filters) Black standard temp.: 40 °C ... 120 °C Humidity 10 ... 75 % (100 % in dark cycle)	DIN EN 438-2; DIN EN 15187; DIN EN 15534-1 DIN EN ISO 4892-2; DIN EN ISO 105-B02 DIN EN ISO 16474-2
Exposure / weathering devices with fluorescent UV lamps	Irradiance	UVA: 0.35 ... 1.55 W/m ² UVB: 0.35 ... 1.00 W/m ²	DIN EN 438-2; DIN EN 927-6; DIN EN ISO 4892-3; DIN EN 15534-1 DIN EN ISO 16474-3

DIN EN 669
1997-11

Resilient floor coverings - Determination of the dimensional stability of linoleum tiles caused by changes in atmospheric humidity

DIN EN 927-3
2012-10

Paints and varnishes - Coating materials and coating systems for exterior wood - Part 3: Natural weathering test

DIN EN 927-5
2007-03

Paints and varnishes - Coating materials and coating systems for exterior wood - Part 5: Assessment of the liquid water permeability

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DIN EN 927-6 2006-10	Paints and varnishes - Coating materials and coating systems for exterior wood - Part 6: Exposure of wood coatings to artificial weathering using fluorescent UV lamps and water
DIN EN 13647 2011-08	Wood flooring and wood panelling and cladding - Determination of geometrical characteristics
DIN EN 14085 2011-07	Resilient floor coverings - Specification for floor panels/assembly for loose laying
DIN EN 15187 2006-12	Furniture - Assessment of the effect of light exposure
DIN EN ISO 105-B02 2002-07	Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test
DIN EN ISO 105-B02 2014-11	Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test
DIN EN ISO 4892-2 2013-06	Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps
DIN EN ISO 4892-3 2016-10	Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps
DIN EN ISO 16474-2 2014-03	Paints and varnishes - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps
DIN EN ISO 16474-3 2014-03	Paints and varnishes - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps
ISO 24339 2006-05	Laminate and textile floor coverings - Determination of dimensional variations after exposure to humid and dry climate conditions
IHD-W-473 2016-04	Bestimmung der Fußbodenheizungsbeständigkeit von Fußbodenbelägen [Determination of underfloor heating resistance of floor coverings]
AMK Data Sheet 001 2007-07	Küchenmöbel - Ermittlung von Oberflächentemperaturen [Kitchen furniture - Determination of surface temperatures]
AMK Data Sheet 005 2015-04	Feuchte- und Klimabeständigkeit von Küchenmöbelbauteilen [Resistance of kitchen furniture components to humidity and climatic influences]

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4.4 Determination of the Electrostatic Properties of Surfaces

4.4.1 Testing of the antistatic behaviour of floors

DIN EN 1081 1998-04	Resilient floor coverings - Determination of the electrical resistance
DIN EN 1815 1998-01	Resilient and laminate floor coverings; Assessment of static electrical propensity
DIN EN 1815 2016-12	Resilient and laminate floor coverings; Assessment of static electrical propensity
DIN EN 14041 2008-05	Resilient, textile and laminate floor coverings - Essential characteristics
DIN EN 61340-4-1 2016-04	Electrostatics - Part 4-1: Standard test methods for specific applications - Electrical resistance of floor coverings and installed floors
IHD-W-453 2011-08	Bestimmung des elektrostatischen Verhaltens von Fußböden mittels „Apparativem Begehtest“ [Determination of the electrostatic behaviour of floorings by means of “Apparative Walk Test”]

4.4.2 Testing of the requirements for ESD protective elements

ANSI/ESD S20.20 2014	ESD association standard for the Development of an Electrostatic Discharge Control Program for - Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices)
ASTM D257 2014	Standard Test Methods for DC Resistance or Conductance of Insulating Material
DIN 51412-1 2005-06	Testing of petroleum products - Determination of the electrical conductivity - Part 1: Laboratory method
DIN 51412-2 2013-01	Testing of petroleum products - Determination of the electrical conductivity - Part 2: Field method
DIN EN 13463-1 2009-07	Non-electrical equipment for use in potentially explosive atmospheres - Part 1: Basic method and requirements - Annex D: Charging tests of non-conducting materials

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DIN EN 60079-0 2014-06	Explosive atmospheres - Part 0: Equipment - General requirements (at the same time VDE 0170-1)
IEC/ TS 60079-32-1 2013-08	Explosive atmospheres - Part 32-1: Electrostatic hazards, guidance
DIN EN 60079-32-2 2015-12	Explosive atmospheres - Part 32-2: Electrostatics hazards - Tests
DIN EN 60243-1 2014-01	Electric strength of insulating materials - Test methods - Part 1: Tests at power frequencies (IEC 60243-1:2013); (Limitation: No tests with alternating voltage)
DIN EN 60243-2 2014-08	Electric strength of insulating materials - Test methods - Part 2: Additional requirements for tests using direct voltage (IEC 60243-2:2013);
DIN IEC 60093 1993-12	Methods of test for insulating materials for electrical purposes - Volume resistivity and surface resistivity of solid electrical insulating materials
DIN EN 61340-2-3 2000-12	Electrostatics - Part 2-3: Methods of test for determining the resistance and resistivity of solid planar materials used to avoid electrostatic charge accumulation (= IEC 61340-2-3: 2000)
DIN EN 61340-2-3 2017-05	Electrostatics - Part 2-3: Methods of test for determining the resistance and resistivity of solid materials used to avoid electrostatic charge accumulation
DIN EN 61340-4-4 2015-11	Electrostatics - Part 4-4: Standard test methods for specific applications - Electrostatic classification of flexible intermediate bulk containers (FIBC)
DIN EN 61340-4-5 2005-03	Electrostatics - Part 4-5: Standard test methods for specific applications - Methods for characterizing the electrostatic protection of footwear and flooring in combination with a person
DIN EN 62631-3-1 2017-01	Dielectric and resistive properties of solid insulating materials - Part 3-1: Determination of resistive properties (DC methods) - Volume resistance and volume resistivity - General method (IEC 62631-3-1:2016), VDE 0307-3-1:2017-01
DIN EN 62631-3-2 2016-10	Dielectric and resistive properties of solid insulating materials - Part 3-2: Determination of resistive properties (DC Methods) - Surface resistance and surface resistivity (IEC 62631-3-2:2015), VDE 0307-3-2:2016-10
DIN EN ISO 80079-36 2016-12	Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements

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Cenelec Technical Report TR 50404:2003	Electrostatics - Code of practice for the avoidance of hazards due to static electricity
TRGS 727 2016	Technical Rules for Hazardous Substances. "Preventing risks of ignition due to electrostatic charges" (previously TRBS 2153)
SAE J1645:2011	Fuel Systems and Components – Electrostatic Charge Mitigation

4.5 Determination of Fire Behaviour

4.5.1 Tests according to IMO Resolution MSC.307(88) - FTP Code 2010, Annex 1
(Ship safety; Int. code 2010 for the application of Fire Test Procedures)

IMO FTP Code 2010 Part 1	IMO Resolution MSC.307(88) - FTP Code 2010, Annex 1, Part 1: Non-combustibility test
IMO FTP Code 2010 Part 5	IMO Resolution MSC.307(88) - FTP Code 2010, Annex 1, Part 5 Test for surface flammability)

4.5.2 Miscellaneous

DIN EN ISO 4589-1 2017-08	Plastics - Determination of burning behaviour by oxygen index - Part 1: General requirements (ISO 4589-1:2017)
DIN EN ISO 4589-2 2017-11	Plastics - Determination of burning behaviour by oxygen index - Part 2: Ambient-temperature test (ISO 4589-2:2017)
DIN EN ISO 4589-3 2017-08	Plastics - Determination of burning behaviour by oxygen index - Part 3: Elevated-temperature test (ISO 4589-3:2017)
DIN 4102-1 1998-05	Fire behaviour of building materials and building components - Building materials - Concepts, requirements and tests. 6.2 Construction material class B2 (load from a small, defined flame (matchstick flame))
ISO 5658-2 2006-09	Reaction to fire tests - Spread of flame - Part 2: Lateral spread on building and transport products in vertical configuration