Overview Methods within the flexible Scope of ISO/IEC 17025:2017
Accreditation Number: PL-19381-03

This list represents an overview of all standards within the accredited scope including the information of the existing flexibilities of UL International Germany GmbH, Krefeld site

The three Categories of flexible Scope are described in the DAkkS Rule "R-17025-PL"

Note: All previous valid and approved standard versions if not mentioned in the tables below are considered Flexible and part of this list *(See Freigegebene Normen Liste)*

Tests in the fields:
Mechanical-technological, rheological and physical tests, emission tests and investigations of the environmental and fire behavior of polymer materials, composite materials and finished parts as well as preliminary and end products and components in the automotive industry, in particular materials for vehicle interiors and insulation and sheathing of cables.

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List of standards with flexible scope B:

Standard No. and Revision	Standard Title	Flex. Cat.	Limitations
SAE J2527 :2017	Performance Based Standard for Accelerated Exposure of Automotive Exterior Materials Using a Controlled Irradiance Xenon-Arc Apparatus	B	
SAE J2412 :2024	Accelerated Exposure of Automotive Interior Trim Components Using a Controlled Irradiance Xenon-Arc Apparatus	B	
ASTM D4459-21	Standard Practice for Xenon-Arc Exposure of Plastics Intended for Indoor Applications	B	
SAE J1756:2006-08	Determination of the Fogging Characteristics of Interior Automotive Materials	B	
ISO 527-1:2019	Plastics – Determination of tensile properties – Part 1: General principles	B	
ISO 527-2:2025	Plastics – Determination of tensile properties – Part 2: Test conditions for moulding and extrusion plastics	B	
ISO 527-3:2018	Plastics – Determination of tensile properties – Part 3: Test conditions for films and sheets	B	
ISO 527-4-1997	Plastics – Determination of tensile properties – Part 4: Test conditions for isotropic and orthotropic fibre-reinforced plastic composites	B	
ISO 527-5:2021	Plastics – Determination of tensile properties – Part 5: Test conditions for unidirectional fibre-reinforced plastic composites	B	
ASTM D638:2022	Standard Test Method for Tensile Properties of Plastics	B	

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List of standards with flexible scope A:

Standard No. and Revision	Standard Title	Flex. Cat.	Limitations
ANSI/UL 94 dated June 27, 2020	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances	A	Accredited part: Section 7 - Horizontal Burning Test and Section 8 - 50 W (20 mm) Vertical Burning Test
ANSI/UL 94 dated May 6, 2021	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances	A	Accredited part: Section 7 - Horizontal Burning Test and Section 8 - 50 W (20 mm) Vertical Burning Test
ANSI/UL 94 dated March 06,2022	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances	A	Accredited part: Section 7 - Horizontal Burning Test and Section 8 - 50 W (20 mm) Vertical Burning Test
ANSI/UL 94 dated April 01, 2022	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances	A	Accredited part: Section 7 - Horizontal Burning Test and Section 8 - 50 W (20 mm) Vertical Burning Test
ANSI/UL 94 dated February 28, 2023	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances	A	Accredited part: Section 7 - Horizontal Burning Test and Section 8 - 50 W (20 mm) Vertical Burning Test
ANSI/UL 94 dated January 5, 2024	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances	A	Accredited part: Section 7 - Horizontal Burning Test and Section 8 - 50 W (20 mm) Vertical Burning Test

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Standard No. and Revision	Standard Title	Flex. Cat.	Limitations
ASTM D1003:2013	Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics	A	Only Procedure A—Hazemeter
ASTM D1003:2021	Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics	A	Only Procedure A—Hazemeter
ASTM D1238-13	Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer	A	
ASTM D1238-20	Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer	A	
ASTM D1238-23a	Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer	A	
ASTM D1525-17	Standard Test Method for Vicat Softening Temperature of Plastics	A	
ASTM D1525-25	Standard Test Method for Vicat Softening Temperature of Plastics	A	
ASTM D256:2020	Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics	A	
ASTM D256:2023	Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics	A	

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Standard No. and Revision	Standard Title	Flex. Cat.	Limitations
ASTM D256:2024	Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics	A	
ASTM D523:2014	Standard Test Method for Specular Gloss	A	
ASTM D523:2014 (2018)	Standard Test Method for Specular Gloss	A	
ASTM D635:2018	Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position	A	
ASTM D635:2022	Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position	A	
ASTM D 648:2018	Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position	A	
ASTM D790:2017	Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials	A	
ASTM E308:2018	Standard Practice for Computing the Colors of Objects by Using the CIE System	A	
ASTM E313:2020	Standard Practice for Calculating Yellowness and Whiteness Indices from Instrumentally Measured Color Coordinates	A	

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Standard No. and Revision	Standard Title	Flex. Cat.	Limitations
ASTM D3801:2019	Standard Test Method for Measuring the Comparative Burning Characteristics of Solid Plastics in a Vertical Position	A	
DIN 5033-1:2017	Colorimetry – Part 1: Basic terms of colorimetry	A	
DIN 5033-7:2014	Colorimetry – Teil 7: Measuring conditions for object colours	A	
DIN 53236:2018	Colouring materials — Conditions of measurement and evaluation for the determination of colour differences for paint coatings, similar coatings and plastics.	A	
DIN 53363:2003	Determining the tear resistance of plastic film and sheeting by the trouser tear method	A	
DIN 53530:1981	Testing of organic materials – Separation test on fabric plies bonded together	A	
DIN 6167:1980	Description of yellowness of near-white or near-colourless materials	A	
DIN EN 20105-A02: 1994	Tests for colour fastness of textiles – Grey scale for assessing change in colour	A	
ISO 105-A02: 1993	Textiles — Tests for colour fastness Part A02: Grey scale for assessing change in colour	A	
EN 17679:2022	Plastics – Plastic films – Determination of tear resistance using a trapezoidal test specimen with incision	A	
IEC 60695-11-10: 2013	Fire hazard testing – Part 11-10: Test flames – 50 W horizontal and vertical flame test methods	A	

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Standard No. and Revision	Standard Title	Flex. Cat.	Limitations
IEC 60695-11-10: 2013/COR1:2014	Fire hazard testing – Part 11-10: Test flames – 50 W horizontal and vertical flame test methods	A	
IEC 60695-2-10: 2013-04	Fire hazard testing – Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure	A	
IEC 60695-2-10: 2021-10	Fire hazard testing – Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure	A	
IEC 60695-2-11: 2014-02	Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end products (GWEPT)	A	
IEC 60695-2-11: 2021-10	Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end products (GWEPT)	A	
IEC 60695-2-12 Edition 2.1:2014-02	Fire hazard testing – Part 2-12: Glowing/hot-wire based test methods – Glow-wire flammability index (GWFI) test method for materials	A	
IEC 60695-2-12: 2021-10	Fire hazard testing – Part 2-12: Glowing/hot-wire based test methods – Glow-wire flammability index (GWFI) test method for materials	A	
IEC 60695-2-13 Edition 2.1:2012-02	Fire hazard testing – Part 2-13: Glowing/hot-wire based test methods – Glow-wire ignition temperature (GWIT) test method for materials	A	
IEC 60695-2-13: 2021-08	Fire hazard testing – Part 2-13: Glowing/hot-wire based test methods – Glow-wire ignition temperature (GWIT) test method for materials	A	

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Standard No. and Revision	Standard Title	Flex. Cat.	Limitations
ISO 1133-1:2011	Plastic – Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics	A	
ISO 1133-1:2022	Plastic – Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics	A	
ISO 1133-2:2011	Plastics – Determination of the melt mass-flow rate (MFR) and melt volume flow rate (MVR) of thermoplastics – Part 2: Method for materials sensitive to time temperature history and/or moisture	A	
ISO 11443:2014	Plastics – Determination of the fluidity of plastics using capillary and slit-die rheometers	A	
ISO 11443:2021	Plastics – Determination of the fluidity of plastics using capillary and slit-die rheometers	A	
ISO 1183-1:2019	Plastic - Methods for determining the density of non-cellular plastics – Part 1: Immersion method, liquid pycnometer method and titration method (here: Method A - Immersion method)	A	
ISO 13468-2:1999	Plastics - Determination of the total luminous transmittance of transparent materials - Part 2: Double-beam instrument	A	
ISO 13468-2:2021	Plastics - Determination of the total luminous transmittance of transparent materials - Part 2: Double-beam instrument	A	
ISO 178:2010	Plastics - Determination of flexural properties	A	
ISO 178:2019	Plastics - Determination of flexural properties	A	

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Standard No. and Revision	Standard Title	Flex. Cat.	Limitations
ISO 179-1:2010	Plastics - Determination of Charpy impact properties – Part 1: Non-instrumented impact test	A	
ISO 179-1:2023	Plastics - Determination of Charpy impact properties – Part 1: Non-instrumented impact test	A	
ISO 180:2000	Plastics - Determination of Izod impact strength	A	
ISO 180:2019	Plastics - Determination of Izod impact strength	A	
ISO 180:2023	Plastics - Determination of Izod impact strength	A	
ISO 2039-1:2001	Plastics – Determination of Hardness – Part 1: Ball Indentation Method	A	
ISO 2813:2014	Paints and varnishes - Determination of gloss value at 20 degrees, 60 degrees and 85 degrees	A	
ISO 294-4:2001	Plastics – Injection Molding of Test Specimens of Thermoplastic Materials – Part 4: Determination of Molding Shrinkage	A	
ISO 294-4:2018	Plastics – Injection Molding of Test Specimens of Thermoplastic Materials – Part 4: Determination of Molding Shrinkage	A	
ISO 306:2013	Plastics – Thermoplastic materials – Determination of Vicat softening temperature (VST)	A	
ISO 306:2023	Plastics – Thermoplastic materials – Determination of Vicat softening temperature (VST)	A	
ISO 34-1:2015	Rubber, vulcanized or thermoplastic – Determination of tear strength – Part 1: Trouser, angle and crescent test pieces	A	
ISO 34-1:2022	Rubber, vulcanized or thermoplastic – Determination of tear strength – Part 1: Trouser, angle and crescent test pieces	A	

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Standard No. and Revision	Standard Title	Flex. Cat.	Limitations
ISO 6603-2:2000	Plastics — Determination of puncture impact behaviour of rigid plastics — Part 2: Instrumented impact testing	A	
ISO 6603-2:2023	Plastics — Determination of puncture impact behaviour of rigid plastics — Part 2: Instrumented impact testing	A	
ISO 75-1:2013	Plastics-Determination of temperature of deflection under load- Part1: general test method	A	
ISO 75-1:2020	Plastics-Determination of temperature of deflection under load- Part1: general test method	A	
ISO 75-2:2013	Plastics – Determination of temperature of deflection under load – Part 2: Plastics and ebonite	A	
ISO 75-3:2004	Plastics – Determination of temperature of deflection under load – Part 3: High-strength thermosetting laminates and long-fibre-reinforced plastics	A	
ISO/CIE 11664-3: 2019	Colorimetry — Part 3: CIE tristimulus values	A	
ISO/CIE 11664-4: 2019	Colorimetry — Part 4: CIE 1976 L*a*b* color space	A	
IEC/EN 60811-501:2012+AMD1:2018	Electric and optical fibre cables - Test methods for non-metallic materials - Part 501: Mechanical tests - Tests for determining the mechanical properties of insulating and sheathing compounds	A	
IEC / EN 60811-1-1:1993+A1:2001	Insulating and sheathing materials of electric cables - Common test methods - Part 1-1: General application; Measurement of thickness and overall dimensions; Test for determining the mechanical properties	A	

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Standard No. and Revision	Standard Title	Flex. Cat.	Limitations
ISO 12219-4:2013	Interior air of road vehicles Part 4: Method for the determination of the emissions of volatile organic compounds from vehicle interior parts and materials — Small chamber method	A	
ISO 12219-6:2017	Interior air of road vehicles Part 6: Method for the determination of the emissions of semi-volatile organic compounds from vehicle interior parts and materials at higher temperature — Small chamber method	A	
ISO 16000-3:2022	Indoor air Part 3: Determination of formaldehyde and other carbonyl compounds in indoor and test chamber air — Active sampling method	A	
VDA 270:2022	Determination of the odour characteristics of trim materials in motor vehicles	A	
VDA 276:2022	Determination of the total concentration of hydrocarbon compounds in test chambers and vehicle interiors with a flame ionization detector (FID)	A	
DIN 75201:2024	Determination of the fogging characteristics of trim materials in the interior of automobiles	A	
ISO 6452:2021	Rubber- or plastics-coated fabrics - Determination of fogging characteristics of trim materials in the interior of automobiles	A	
VDA 278:2016	Thermal Desorption Analysis of Organic Emissions for the Characterization of Non-Metallic Materials for Automobiles	A	

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