

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"](#)

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:



Procedure	Standard No. and Revision	Measured variable/test parameter	Test object
Light fastness	ISO 16474-1 :2013 ISO 16474-2 :2013 PV 1303 :2015 ISO 105-B06 :2020 ASTM G151 :2019	Irradiance	
		Filter system	
		Chamber temperature	
		BST/BPT temperature	
		Humidity	
		Cycle	
Weather resistance	ISO 16474-1 :2013 ISO 16474-2 :2013 PV3929 :2018 PV 3930 :2017 DBL 5404 :2016 ASTM G155 :2013 ASTM G155 :2021 SAE J2527 :2017 SAE J2412 :2024 ASTM G151:2019 IEC 62930:2017 EN 50289-4-17:2015 IEC 62893-2:2017 EN 50618 :2014 EN 50620 :2017 ASTM D4459-21 DBL 5404:2016 ISO 105-B06:2020	Irradiance	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
		Filter system	
		Chamber temperature	
		BST/BPT temperature	
		Humidity	
		Cycle	

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Procedure	Standard No. and Revision	Measured variable/test parameter	Test object	
Odour testing using sensor technology	PV 3900:2019 VDA 270:2022 ISO 12219-7:2017	Sample quantity	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	
		Glass sizes		
		Storage conditions		
Testing by means of gravimetry and/or reflectometric fogging	DIN 75201:2024 ISO 6452:2021 PV 3015:2019 SAE J1756:2006-08	Sample quantity		
		Bath temperature		
		Cooling plate temperature		
		Gloss		
		Preconditioning		
Thermodesorption analysis of organic emissions	VDA 278:2016 ISO 16000-6:2021	Sample quantity		
Tensile test	ISO 527-1:2019 ISO 527-2:2025 ISO 527-3:2018 ISO 527-4:1997 ISO 527-5:2021 ASTM D638-22 IEC / EN 60811-501:2012+AMD1:2018 IEC / EN 60811-1-1:1993+A1:2001	Force range	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, insulation, and cable sheathing	
		Elongation		
		Traverse path		
		Speed		
		Temperature		

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List of standards with flexible scope A:

Standard No. and Revision	Standard Title	Limitations
ANSI/UL 94 dated January 5, 2024	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances	Accredited part: Section 7 - Horizontal Burning Test and Section 8 - 50 W (20 mm) Vertical Burning Test
ASTM D1003-21	Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics	only Procedure A—Hazemeter
ASTM D1238-23a	Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer	
ASTM D1525-25	Standard Test Method for Vicat Softening Temperature of Plastics	
ASTM D256-24	Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics	
ASTM D523-14 (2018)	Standard Test Method for Specular Gloss	
ASTM D635-22	Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position	
ASTM D790-17	Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials	
ASTM E308-18	Standard Practice for Computing the Colors of Objects by Using the CIE System	
ASTM E313-20	Standard Practice for Calculating Yellowness and Whiteness Indices from Instrumentally Measured Color Coordinates	

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Standard No. and Revision	Standard Title	Limitations
DIN 5033-1:2017	Colorimetry – Part 1: Basic terms of colorimetry	
DIN 5033-7:2014	Colorimetry – Teil 7: Measuring conditions for object colours	
DIN 53236:2018	Colouring materials — Conditions of measurement and evaluation for the determination of colour differences for paint coatings, similar coatings and plastics.	
DIN 53363:2003	Determining the tear resistance of plastic film and sheeting by the trouser tear method	
DIN 53530:1981	Testing of organic materials – Separation test on fabric plies bonded together	
DIN 6167:1980	Description of yellowness of near-white or near-colourless materials	
DIN EN 20105-A02: 1994	Tests for colour fastness of textiles – Grey scale for assessing change in colour (ISO 105-A02)	
EN 17679:2022	Plastics – Plastic films – Determination of tear resistance using a trapezoidal test specimen with incision	
IEC 60695-11-10: 2013/COR1:2014	Fire hazard testing – Part 11-10: Test flames – 50 W horizontal and vertical flame test methods	
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	
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)	

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Standard No. and Revision	Standard Title	Limitations
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	
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	
ISO 1133-1:2022	Plastic – Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics	
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	
ISO 11443:2021	Plastics – Determination of the fluidity of plastics using capillary and slit-die rheometers	
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)	
ISO 13468-2:2021	Plastics – Determination of the total luminous transmittance of transparent materials – Part 2: Double-beam instrument	
ISO 178:2019	Plastics - Determination of flexural properties	
ISO 179-1:2023	Plastics — Determination of Charpy impact properties – Part 1: Non-instrumented impact test	

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Standard No. and Revision	Standard Title	Limitations
ISO 180:2023	Plastics - Determination of Izod impact strength	
ISO 2039-1:2001	Plastics – Determination of Hardness – Part 1: Ball Indentation Method	
ISO 2813:2014	Paints and varnishes - Determination of gloss value at 20 degrees, 60 degrees and 85 degrees	
ISO 294-4:2018	Plastics – Injection Molding of Test Specimens of Thermoplastic Materials – Part 4: Determination of Molding Shrinkage	
ISO 306:2023	Plastics – Thermoplastic materials – Determination of Vicat softening temperature (VST)	
ISO 34-1:2022	Rubber, vulcanized or thermoplastic – Determination of tear strength – Part 1: Trouser, angle and crescent test pieces	
ISO 6603-2:2023	Plastics — Determination of puncture impact behaviour of rigid plastics — Part 2: Instrumented impact testing	
ISO 75-1:2020	Plastics-Determination of temperature of deflection under load-Part1: general test method	
ISO 75-2:2013	Plastics – Determination of temperature of deflection under load – Part 2: Plastics and ebonite	
ISO 75-3:2004	Plastics – Determination of temperature of deflection under load – Part 3: High-strength thermosetting laminates and long-fibre-reinforced plastics	
ISO/CIE 11664-3: 2019	Colorimetry — Part 3: CIE tristimulus values	
ISO/CIE 11664-4: 2019	Colorimetry — Part 4: CIE 1976 L*a*b* color space	

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