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Annex to the Partial Accreditation Certificate D-PL-20658-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from:	**11.05.2023**	**Valid to:**	**10.05.2028**
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This annex is a part of the accreditation certificate D-PL-20658-01-00.

Holder of partial accreditation certificate:

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The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and confirm generally with the principles of DIN EN ISO 9001.

temperature, humidity, solar simulation and in their combination environmental simulation tests (qualification tests), measurements of gloss, color and three-dimensional deformation of technical products

Within the given testing field marked with *, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS the free choice of standard or equivalent testing methods.
The listed testing methods are exemplary. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

Content

1 Colour fastness against ageing caused by environmental influences of laquer- or other material surfaces, textiles, components and component constituents, predominantly for the use in motor vehicle interior *

DIN EN ISO/CIE 11664-4 2020-03	Colorimetry - Part 4: CIE 1976 L*a*b* Color space
DIN 6174 2007-10	Colorimetric evaluation of colour coordinates and colour differences to the approximated uniform CIELAB colour space (*withdrawn standard*)
DIN 5033-7 2014-10	Colorimetry - Part 7: Measuring conditions for object colours
DIN EN ISO 4628-1 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 1: General introduction and designation system
DIN EN 20105-A02 1994-10	Textiles - Tests for colour fastness - Part A02: Grey scale for assessing change in colour
ISO 105-A02 1993-09	Textiles - Tests for colour fastness - Part A02: Grey scale for assessing change in colour
DIN EN ISO 105-A05 1997-07	Textiles - Tests for colour fastness - Part A05: Instrumental assessment of change in colour for determination of grey scale rating

DIN EN ISO 2813 2015-02	Paints and varnishes - Determination of specular gloss of non-metallic coatings with 20°, 60° and 85° (*according to JIS K 5400 & MS & MS 652-14 600-60*)
DIN 67530 1982-01	Reflectometer as a means for gloss assessment of plane surfaces of paint coatings and plastics (*withdrawn standard*)

The following standards or in-house test methods are not subject within the flexible scope

VW 50190 2011-01	Components of the vehicle interior trim - Colorimetric evaluation (here only: *colour*)
VW 50190 2006-10	Components of the vehicle interior trim - Colorimetric evaluation (here only: *colour*)
VW 50195 2002-11	Colorimetric Evaluation of Automobile Paint Coatings § 3.2.1 Solid paint
Vinfast VFDST00053800 2018-08	Solar Simulation for Trim Parts

2 Environmental tests with temperature, humidity, solar simulation and in combination (qualification tests) on pre- and end-products as well as automobile industry components *

DIN EN 60068-2-14 2010-04	Environmental testing - Part 2-14: Tests - Test N: Change of temperature (*§ 8: Test Nb: Changes of temperature with specified rate of change*)
DIN EN 60068-2-30 2006-06	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)
DIN EN 60068-2-78 2014-02	Environmental testing Part 2-78: Tests - test Cab: Damp heat, steady state (*withdrawn standard*)
DIN EN ISO 9142 2004-05	Adhesives - Guide to the selection of standard laboratory ageing conditions for testing bonded joints (*Cycle D2: Heat, cold (thermal shock) and moisture cycle*)
DIN 75220 1992-11	Ageing of aAutomobile cComponents in sSolar sSimulation uUnits - D: (Long term Testing) - Z: (cycle Test)

VDA 230-219 2011-10	Ageing of automotive components in solar simulation units - D: (long term testing) - Z: (cycle testing)
ISO 2796 1986-08	Cellular plastics, rigid - Test for dimensional stability
DIN 53497 2017-04	Testing of plastics - Heat storage test of moulded articles made of thermoplastic moulding materials without outside mechanical stress - Method A: constant storage period - Method B: constant temperature
DIN 53100 2020-04	Metallic coatings - Electroplated coatings of nickel plus chromium and of copper plus nickel plus chromium on plastics materials (*§ 7.5: Thermal cycle test (appendix D)*)
ASTM D5427 2009-01	Standard practice for accelerated ageing of inflatable restraint fabrics (§ 8.4: Cycle aging)

The following standards or in-house test methods are not subject within the flexible scope

BMW PR 303.5 2010-01	Climate cycle test for equipment parts
BMW PR 303.6 2020-06	Climate cycle test for equipment parts
BMW PR 308.2 2006-04	Climatic testing of adhesive joints and material bonds of equipment parts
BMW AA-P 276E 2006-06	Temperature Cycle Test

Daimler DBL 5471 2007-05	Supply specification - trim panels and molded padded parts for vehicle interiors (compound parts) § 4.1.1 Dry-warm/humid-cold (warm climate cycle test A) - § 4.1.2 Dry-warm/humid-cold (warm climate cycle test B) - § 4.1.3 Dry-hot/humid-cold (hot climate cycle test) - § 4.2.1 Dry-warm endurance test A (warm temperature test) - § 4.2.2 Dry-warm endurance test B (warm temperature test) - § 4.2.3 Dry-hot endurance test (heat test) Film, skin and textile surfaces - § 4.2.4 Humid-warm aging Film, skin and textile surfaces, not for parts with leather surfaces - $ 4.3 color change - § 4.4 Solar simulation
Daimler DBL 9202 2013-01	Supply Specification Decorative Parts in Vehicle Interiors - *§ 9.1 Thermal cycling 1 - TWT 1* - § 9.2 Thermal cycling 1 - TWT 2 - § 9.3 Hot storage 1 WL 1 - § 9.4 Hot storage 2 WL 2 - § 9.5 Hot storage 3 WL 3 - § 9.6 Climate storage 2 – KL) - § 9.7 Alternating climate test - KWT AKLV steering wheel - § 9.8 Accelerated test)
Daimler MBN 15306-1 2017-06	Test Methods for Material Systems and Components – Part 1: Thermal Tests - $ 5.1 Warm climate cycle test - $ 5.2 Warm climate cycle test / quick feed - $ 5.3 Warm climate cycle test / dimensional change test - $ 5.4 Thermal aging test - $ 5.5 Climate Test - $ 5.6 Low-temperature test
Tesla TP-0000706 2015-07	Climatic Aging of Materials, Components and Assemblies - § 4.3.2 Modul I - § 4.3.2 Modul II
VW PV 2005-A 2000-09	Vehicle parts - Testing of resistance to environmental cycle test (*Variant A: Single parts*)
VW PV 2005-A 2021-06	Vehicle parts - Testing of resistance to environmental cycle test (*Variant A: Single parts*)
VW PV 1200 2004-10	Vehicle parts - Testing of resistance to environmental cycle test (+80/-40) °C

VW PV 1200 2022-11	Vehicle parts - Testing of resistance to environmental cycle test (+80/-40) °C
VW TL 203 2015-02	Electroplated Ni-Cr coatings - Requirements for surface protection (*§ 3.4d: Resistance to temperature cycling*)
GM/Opel GMW 14124 2017-08	Automotive Environmental Cycles - Test cycle H: Dimensional stability test cycle - Test cycle M: Interior trim dimensional stability cycle - Test cycle P: Covered door panel delamination/dimensional stability cycle - Test cycle S: Accelerated ageing of leather and plastic rolled goods - Test cycle Q: Ageing condition for bond strength and hydrolytic stability of laminated textile materials - Test cycle W: Interior adhesive/sealant humidity high tempera-ture test cycle
GM/Opel GMW 14124 2012-07	Automotive Environmental Cycles - Test cycle H: Dimensional stability test cycle - Test cycle M: Interior trim dimensional stability cycle - Test cycle P: Covered door panel delamination/dimensional stability cycle - Test cycle R: Shrinkage of upholstery materials used for wrapping instrument panels (IP) and rear window trim (RWT) - Test cycle S: Accelerated ageing of leather and plastic rolled goods - Test cycle W: Interior adhesive/sealant humidity high tempera-ture test cycle - Test cycle Q: Ageing condition for bond strength and hydrolytic stability of laminated textile materials
GM/Opel GMW 14124 2010-11	Automotive Environmental Cycles - Test cycle M: Interior trim dimensional stability cycle - Test cycle P: Covered door panel delamination/dimensional stability cycle
Porsche PPV 4015 / VW 96379 2006-04	Exterior - Test of add-on parts - Climate cycle test
Porsche PPV 5002/ VW 96395 2016-11	Leather - Determination of shrinkage behavior
Porsche PPV 5002/ VW 96395 2006-02	Leather - Determination of shrinkage behavior

Ford FLTM BQ 104-07 2000-11	Environmental Test Cycles (*only procedures 1 to 6*)
Renault RT D45 1564 2005-04	Textiles - Dimensional variations in humidity
Renault D47 1309 2007-03	Automobile equipment trimming materials and parts - Ageing according to given climatic cycle
Renault D47 1309 2013-06	Materials and parts for automotive equipment - Ageing according to a given climatic cycle
PSA D47 1309 1996-08	Materials and parts for automotive equipment - Ageing according to a ~~by a~~ given climatic cycle
PSA D47 1309 2008-11	PSA Peugeot - Citroen: Materials and parts for automotive equipment - Ageing according to a given climatic cycle
PSA D47 1309 2006-09	PSA Peugeot - Citroen: Materials and parts for automotive equipment - Ageing according to a given climatic cycle
TPJLR 52.360 2015-02	Jaguar Cars & Land Rover: Accelerated Environmental Ageing for Adhesives Used in Trim Appli-cations
TPJLR.52.356 2005-08	Jaguar Cars & Land Rover: High heat & humidity ageing (climate cycle)
BMW PR 306.5 2014-04	Solar simulation for trim parts - part a: Instrument panel and rear shelf - part b: Door trim panel - part c: Test behind horizontal glass pane - part d: Other interior components - part e: Exterior add-on parts - part f: Complete vehicle
Daimler FuVo_A_0010060099_DE_2010_02_ZGS001	Function Specification Instrument Panel Assembly - § 3.1.1 Solar Simulation DIN 75220 (SoSi) - Indoor Solar Simulation - § 3.1.2 Solar Simulation DIN 75220 (SoSi) - Outdoor Solar Simulation
BMW AA-0203 2017-04	Hydrolysis test
BMW AA-P 308 2007-06	Hydrolysis test

VW TL 226 2016-10	Paintwork on Materials of Vehicle Interior Equipment (3.7 Table 3 Section 4.1: Dimensional stability under heat in a forced-air oven)
VW TL 226 2018-04	Paintwork on Materials of Vehicle Interior Equipment (here: *3.7 Table 3 Section 5.3: Hydrolysis aging* *3.7 Table 3 Section 4.1: Dimensional stability under heat in a forced-air oven*)
Renault D47 1165 1997-05	Plastics and products applied to the body in white or coated in paint - Accelerated ageing - climate storge (constant climate) – only method A, B, C
PSA D47 1165 2006-07	PSA Peugeot - Citroen: Products applied to body-in-white or paint coated body, plastics - Accelerated ageing - Only methods N / R / W / X (climate storages)
PSA D47 1165 2010-08	Plastics and products applied to the body in white or coated in paint - Accelerated ageing - climate storge (constant climate) – Only Method A, B, D
Daimler DBL 5306 2008-12	General technical delivery conditions and test methods for interior equipment materials and similar products (here: *§ 7.3: Cold resistance - Ball drop test*)
Daimler DBL 5306 2008-12	General technical delivery conditions and test methods for interior equipment materials and similar products (here: § 6.1: Heat resistance - Loose exposure)
TPJLR.52.352 2017-06	Jaguar Cars & Land Rover: Resistance to heat ageing
TPJLR.52.301 2004-09	Jaguar Cars & Land Rover: Dimensional stability under humidity and dry heat, Index J and K: Procedure for dry heat
PSA D45 1234 1997-08	Parts containing plastic elements - Reaction to heat in a non-radiant dry oven
PSA D47 1234 2010-02	Parts containing plastic elements - Reaction to heat in a non-radiant dry oven
Renault D45 1601 2009-07	Passenger compartment materials - Volatility of additives on one single surfaces
PSA D45 1139 2001-09	Covering materials - Dimensional variations and changes in appearance under heat

PSA D45 1139 2006-06	Trim materials - Dimensional variations and changes in appearance when subjected to heat
Jaguar JNS 30.32.04 1989-11	Resistance to heat ageing - General
Fiat 50444 2008-06	Genuine leather, imitation leather and vinyl sheeting: Color fastness and aging test (here: *§ 1.2 Hot aging*)
Chrysler LP-463LB-13-01 2001-09	Leather - Physical testing, Heat aging of Trim material
DIN EN ISO 1110 2019-09	Plastics - Polyamides - Accelerated conditioning of test specimens
VW PV 3959 2019-04	Hydrolysis Test on Molded Headliners with Laminated Decorative Material in the Interior
VW PV 3959 2020-04	Hydrolysis Test on Molded Headliners with Laminated Decorative Material in the Interior
VW PV 5015 BR 2000-10	Test Prescription - Resistance to hydrolysis in PU foams
GMW 14357 2017-03	For cellular and related materials: Determination of Resistance to Humidity ageing
Ford FLTM BI 106-03 2001-03	Hydrolysis resistance of painted plastic panels

3 Delaminating test of bonded joints and composite material on trim part such as lamination, back compression moulding, in-mould lamination, back foaming, moulding and welding *

DIN EN ISO 2411 2018-02	Rubber- or plastics-coated fabrics - Determination of coating adhesion
DIN 53377 2021-11	Testing of plastic films – Determination of dimensional stability
DIN EN 28510-1 2014-07	Adhesives - Peel test for a flexible-bonded-to-rigid-test specimen assembly - Part 1: 90° peel

DIN EN ISO 8510-2 2010-12	Adhesives- Peel test for a flexible-bonded-to-rigid-test specimen assembly - Part 2: 180 degree peel

The following standards or in-house test methods are not subject within the flexible scope

BMW PR 100.6 2017-11	Trim pane A, B, C and D pillar (here: *§ 2.2.2 Climatic test Decor adhesion PR 308*)
BMW PR 102.8 2018-03	Moulded headlining with add-on part (here: *§ 2.-1.8 Decor adhesion (headlining) - § 2.1.9 Decor adhesion (console) - § 2.4.6 Foam insert bond adhesion*)
BMW PR 104.6 2017-12	Rear shelf with add-on parts (here: *§ 2.5 Edge stripping test - § 2.6 Separation force of attachments*)
BMW PR 292 2017-12	Underbody add-on parts (here: *§ 2.9 Top coat adhesion*)
PR 308.2 2006-04	Climatic test for bonded joints and composite materials on trim parts (here: *§ 4.1 Test procedure: Pull-off force of laminated surfaces*)
BMW PR 375.5 2018-02	Textile trim components in the luggage compartment (here: *§ 2.1.7.2 Separating force test of two components*)
BMW PR 389.1 2013-11	Passenger compartment Sl and trunk Sl (here: *§ 2.3.3.4 Splitting force - § 2.3.4 Separation force*)
BMW PR 388 2010-08	Engine Compartment Sound Insulation (here: *§ 2.2.3 parting Force Test*)
BMW PR 388 2020-12	Sound Insulation components in the engine compartment and underfloor area (here: § *2.2.3 Adhesion Strength Test*)
PR 382.1 2010-08	Foot support in passenger compartment (here: *§ 2.3.4.2 Adhesive bonding test to PR 308*)
PR 372.3 2013-11	Plastic parts in the trunk and passenger compartment bottom (here: *§ 2.1.7.2 Separating force test of two components*)
DBL 5471 2018-08	Trim and molded padded parts for vehicle interiors (composite parts) (here: *§ 6.6 Peel test for decorative goods*)

DBL 5471 2019-10	Trim and molded padded parts for vehicle interiors (composite parts) (here: *§ 6.6 Peel test for decorative goods*)
Daimler 55555-4 2018-02	Non-metallic materials, material systems and semifinished products Part 4: Thermal Tests (here: *§ 5.1 Warm Climate Cycle Test (WCC)*)
MBN 55555-6 2018-02	Non-metallic material, material systems and semi-finished products - Part 6: Mechanical Test (here: *§ 5.17 Ball Drop Test* *- § 5.24 Peel test for decorative goods)*

4 Vibration testing for trim component, Measurement of Annoying Noise (Rattling/Creaking) for Components and Overall Vehicle, Measurement of other function

The following standards or in-house test methods are not subject within the flexible scope

BMW PR 309.1 2014-08	Vibration test for equipment components
BMW PR 309.2 2016-03	Vibration test for trim components
BMW PR 241.4 2017-01	Sliding/tilting sunroof, panorama roof, elevating sunroof, fixed installed glass panel (here: *§ 3.2 Fatigue strength (Service life test with temperature change, vibration and contamination)*
BMW PR 034.2 2015-05	Folding table test specification Function and Continuous Load Test (here: *§ 4.8 Service life simulation, vibrations*)
BMW PR 261 2018-11	Outside rearview mirror (here: *§ 3.2.2.2.4 Vibration test*)
BMW PR 261 2019-12	Outside rearview mirror (here: *§ 3.2.2.2.4 Vibration test*)
BMW PR 265 2012-06	Head lamps for dipped/main beam halogen, xenon and LED systems (here: § *6.3.2 Mechanical shock - § 6.3.3 Vibration stress with superimposed temperature*)
BMW PR 266 2016-06	Lights for exterior mount (here: § *6.3.1 Mechanical shock test - § 6.3.2 Extended mechanical shock - § 6.3.3 Vibration stress with temperature overlapping*)

BMW PR 271 2015-01	Wind screen wiper system (here: *§ 3.2.2 Vibration test*)
Mercedes Fuvo A2107200000 2014-10	Function Specification - Door Paneling Assembly (here: *§ 4.8.10 Shaker test*)
Toyota TSC3000G 2015-02	Toyota Lamp environmental reliability test (here: *§ 4.1.2 Vibration performance test - § 4.1.4 Environmental vibration test*)
BMW GS95024_3_1_LV124 2013-07	Electrical and electronic components in motor vehicles Environmental requirements and testing *- § 13.4 M04 Vibration test profile* *- § 13.5 M05 Mechanical shock B and D* *- § 13.6 M06 Mechanical shock endurance*
ISO 16750 Part 3 2012-12	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 3: Mechanical loads (here: *§ 4.1 Vibration*)

5 Stiffness, strength & force test

The following standards or in-house test methods are not subject within the flexible scope

BMW PR 100.6 2017-11	Trim panel A-B-C- and D pillar (here: *§ 2.2.5.1 Pressure stiffness of pillar trim* *- § 2.2.5.2 Tensile strength of pillars, component stability* *- § 2.2.7.2 Installation force Cover cap Airbag* *- § 2.2.8 Retainer/Clipse - Retainer/Clip)*
BMW PR 101.5 2018-03	Roof grab handle and coat hook system (here: *§ 2.4.1 Static rigidity and strength on the grab handle system* *- § 2.4.4 Static tensile loading on coat hook)*
BMW PR 103.6 2013-06	Sun visor test specification (here: *§ 2.1.2 Force required to clip in and out support*)
BMW PR 103.7 2019-07	Sun visors (here: *§ 2.1.2 Force required to clip in and out support*)
BMW PR 381.4 2013-04	Floor trim (here: *§ 2.3.1 Strength and rigidity tests*)

BMW PR 381.5 2020-10	Floor trim (here: *§ 2.3.1 Strength and rigidity tests*)
BMW PR 102.8 2018-03	Moulded headlining and add-on part (here: *§ 2.1.5 Static rigidity tests - § 2.1.7 Strength test of clip retainer & clip sliding force*)
BMW PR 104.6 2017-12	Rear shelf with add-on parts (here: *§ 2.2.2 Static stiffness and solidity test - § 2.4.1 Operating forces - § 2.6 Separation force of attachments*)
BMW PR 106.1 2012-08	D-pillar lift (here: *§ 3.4.3 Locking forces in case of manual actuation of the comfort opening*)
BMW PR 208 2017-10	Finishers and trim strips in the area door and side frame (here: *§ 3.1.1.5.4 Peel test on bonded joint of trim strips and outer door waistbelt*)
BMW PR 208 2019-12	Finishers and trim strips in the area door and side frame area (here: *§ 3.1.1.4.4 Peel test on bonded joint of trim strips and outer door waistbelt*)
BMW PR 209 2017-10	Sill finisher (here: *§ 3.2.1.2.3 Displacement force of the finisher*)
BMW PR 226 2010-11	Covering windshield panel (here: *§ 4.4 Component strength*)
BMW PR 231 2018-12	Seal system doors and lids (here: *§ 3.3.1.2 Assembly force* *- § 3.3.1.3 Disassembly force* *- § 3.3.2.4 Pull-off force following a change in temperature* *- § 3.5 component test window*)
BMW PR 231 2019-12	Seal system doors and lids (here: *§ 3.3.1.2 Assembly force* *- § 3.3.1.3 Disassembly force* *- § 3.3.2.4 Pull-off force following a change in temperature* *- § 3.5 component test window*)
BMW PR 321.5 2013-09	Instrument panel (here: *§ 2.8 Rigidity and strength*)

BMW PR 223.2 2016-03	Buckling strength / Buckling resistance outer panel (here: *§ 5 Definition of requirements relating to buckling resistance and buckling strength*)
BMW PR 220 2009-07	Dent resistance plastic outer skin
BMW PR 292 2017-12	Underbody add-on parts (here: *§ 2.28 Determination of Pull-of Forces - Horizontal* *- § 2.29 Determination of Pull-of Forces - Vertical)*
BMW PR 376 2010-08	Clamping / stowing elements and mounts in the trunk (here: *§ 2.1.4.2 misuse for stowing nets*)
BMW PR 375.5 2018-02	Textile trim components in the luggage compartment as per design described under item 1 (here: *§ 2.1.7.1 Strength- and rigidity test* *- § 2.2.1 Operation of flaps / service cap / floor panel / screen*)
BMW PR 372.3 2013-11	Plastic parts in the trunk and passenger compartment bottom (here: *§ 2.1.7.1 Rigidity- and strength test* *- § 2.1.7.3 Determination of moving and unclipping force* *- § 2.1.7.4 Testing combination bracket with mounted - OBD-socket* *- § 2.1.7.5 Testing driving dog on combination bracket*)
BMW PR 326.5 2015-02	Vehicle door (here: *§ 3.1.1.1 Rigidity and strength on the complete component*)
BMW PR 382.1 2010-08	Foot support in passenger compartment (here: *§ 2.3.5 Pressure tests on foot support*)

Abbreviations used:

ASTM	American Society for Testing and Materials
BMW AA	BMW work instruction
BMW PR	BMW test procedure
Crysler LP	Crysler Laboratory Procedures
DBL	Daimler Benz delivery instruction
Daimler FuVo	Daimler Function Specification
DIN	Deutsches Institut für Normung e.V. - German institute for standardization
EN	European Standard
FLTM	Ford Laboratory Test Method
Fuvo	Function Specification

GMW	General Motors Worldwide
GS	Group Standard
Hyundai MS	Hyundai Material Specification
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
Jaguar JNS	Jaguar Standard
MBN	Mercedes Benz Norm
Porsche PPV	Porsche test procedure
PSA	Peugeot Société Anonyme
Renault RT	Renault Trucks SAS
TPJLR	Test Procedure Jaguar and Land Rover
VDA	Association for automobile industry
VW PV	Volkswagen test procedure
VW TL	Volkswagen technical delivery specification