

### Deutsche Akkreditierungsstelle GmbH

# Annex to the Accreditation Certificate D-PL-20658-01-00 according to ISO/IEC 17025:2017

Period of validity: 30.04.2020 to 12.06.2023 Date of issue: 30.04.2020

Holder of certificate:

IMAT Shenyang Automotive Technology Co. Ltd. G8-G6/7 Guizhuxiang street, Sujiatun District, 110100 Shenyang, Liaoning province P.R. CHINA

Tests in the fields:

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

Abbreviations used: see last page

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.

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 11664-4 Colorimetry - Part 4: CIE 1976 L\*a\*b\* Color space

2012-06

DIN 6174 Colorimetric evaluation of colour coordinates and colour differences to

2007-10 the approximated uniform CIELAB colour space

(withdrawn standard)

VW 50190 Components of the vehicle interior trim - Colorimetric evaluation (here

2011-01 only: *colour*)



VW 50190 2006-10	Components of the vehicle interior trim - Colorimetric evaluation (here only: <i>colour</i> )
VW 50195 2002-11	Colorimetric Evaluation of Automobile Paint Coatings § 3.2.1 Solid paint
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 ISO 4628-1 2004-01	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of defects, and of intensity of uniform changes in appearance - Part 1: General introduction and designation system (withdrawn standard)
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 EN ISO 2813 1999-06	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) (withdrawn standard)
DIN 67530 1982-01	Reflectometer as a means for gloss assessment of plane surfaces of paint coatings and plastics (withdrawn standard)

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# 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 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)
BMW PR 303.5 2010-01	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 276 2006-05	Temperature Cycle Test
Daimler DBL 5471 2007-05	Supply specification - trim panels and molded padded parts for vehicle interiors (compound parts) (§ 4.1.2 Dry-warm/humid-cold (warm climate cycle test B) + 4.3 color change)
Daimler DBL 5471 2007-05	Supply specification - trim panels and molded padded parts for vehicle interiors (compound parts); § 4.1.3 Dry-hot/humid-cold (hot climate cycle test) + 4.3 color change
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) + 4.3 color change)
Daimler DBL 5471 2007-05	Supply specification - trim panels and molded padded parts for vehicle interiors (compound parts) (§ 4.2.4 Humid-warm ageing + 4.3 color change)
Daimler DBL 9202 2013-01	Supply Specification Decorative Parts in Vehicle Interiors (§ 9.1 Thermal cycling 1 - TWT 1)
Daimler DBL 9202 2013-01	Supply Specification Decorative Parts in Vehicle Interiors (§ 9.2 Thermal cycling 1 - TWT 2)

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Daimler DBL 9202 Supply Specification Decorative Parts in Vehicle Interiors (§ 9.7 Alternating climate test - KWT AKLV steering wheel)

Daimler DBL 9202 Supply Specification Decorative Parts in Vehicle Interiors (§ 9.8 Accelerated test)

VW PV 2005-A Vehicle parts - Testing of resistance to environmental cycle test (Variant A: Single parts)

VW PV 1200 Vehicle parts - Testing of resistance to environmental cycle test 2004-10 (+80/-40) °C

VW TL 203 Electroplated Ni-Cr coatings - Requirements for surface protection 2015-02 (§ 3.4d: Resistance to temperature cycling)

GM/Opel GMW 14124 Automotive Environmental Cycles 2012-07 - Test cycle H: Dimensional

- 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 temperature 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

2006-04

Exterior - Test of add-on parts - Climate cycle test

VW 96379 Exterior - Test of add-on parts - Climate cycle test 2006-04

Porsche PPV 5002

2016-11

Leather - Determination of shrinkage behavior

Porsche PPV 5002

2006-02

Leather - Determination of shrinkage behavior

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VW 96395

Leather - Determination of shrinkage behavior 2016-11 VW 96395 Leather - Determination of shrinkage behavior 2006-02 Ford FLTM BQ 104-07 **Environmental Test Cycles** 2000-11 (only procedures 1 to 6) Renault RT D45 1564 Textiles - Dimensional variations in humidity 2005-04 Renault D47 1309 Automobile equipment trimming materials and parts - Ageing accor-2007-03 ding to given climatic cycle Renault RT 1309 Trim materials and parts - Ageing by a given climatic cycle 1995-04 PSA D47 1309 PSA Peugeot - Citroen: Materials and parts for automotive equipment -2008-11 Ageing according to a given climatic cycle PSA D47 1309 PSA Peugeot - Citroen: Materials and parts for automotive equipment -2006-09 Ageing according to a given climatic cycle TPJLR 52.360 Accelerated Environmental Ageing for Adhesives Used in Trim Appli-2015-02 cations TPJLR.52.356 Jaguar Cars & Land Rover: High heat & humidity ageing (climate cycle) 2005-08 **ASTM D5427** Standard practice for accelerated ageing of inflatable restraint fabrics 2003-10 (§ 8.4: Cycle aging) **ASTM D5427** Standard practice for accelerated ageing of inflatable restraint fabrics 2009-01 (§ 8.4: Cycle aging) **DIN 75220** Ageing Automobile Components in Solar Simulation Units 1992-11 D: (Long term Testing) Z: (cycle Test)

Ageing of automotive components in solar simulation units

D: (long term testing) Z: (cycle testing)

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VDA 230-219

2011-10



BMW PR 306.5 Solar simulation for trim parts

2014-04 - 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 DBL 5471 Supply specification - Trim panels and molded padded parts for vehicle

interiors (compound parts)
(§ 4.4 Solar simulation)

Daimler Function Specification Instrument Panel Assembly

FuVo\_A\_0010060099\_DE\_201 - § 3.1.1 Solar Simulation DIN 75220 (SoSi) - Indoor Solar Simulation

0 02 ZGS001 - § 3.1.2 Solar Simulation DIN 75220 (SoSi) - Outdoor Solar

Simulation

DIN EN 60068-2-78 Environmental testing Part 2-78: Tests - test Cab: Damp heat, steady

2002-09 state

(withdrawn standard)

ISO 2796 Cellular plastics, rigid - Test for dimensional stability

1986-08

2007-05

BMW AA-0203 Hydrolysis test

2017-04

BMW AA-P 308 Hydrolysis test

2007-06

Daimler DBL 5471 Supply specification - trim panels and molded padded parts for vehicle

2007-05 interiors (compound parts)

(§ 4.2.4 + 4.3 - Humid-warm ageing + color change)

Daimler DBL 5471 Supply specification - trim panels and molded padded parts for vehicle

2007-05 interiors (compound parts)

(§ 4.2.4 + 4.3 - Humid-warm ageing + color change)

Daimler DBL 9202 Supply Specification Decorative Parts in Vehicle Interiors

2013-01 (§ 9.6 Climate storage 2 - KL)

VW TL 226 Paintwork on Materials of Vehicle Interior Equipment

2018-04 (3.7 Table 3 Section 5.3: Hydrolysis aging)

Renault D47 1165 Plastics and products applied to the body in white or coated in paint -

1997-05 Accelerated ageing - climate storge (constant climate)

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PSA D47 1165 PSA Peugeot - Citroen: Products applied to body-in-white or paint 2006-07 coated body, plastics - Accelerated ageing - Only methods N / R / W / X (climate storages) Daimler DBL 5306 General technical delivery conditions and test methods for interior equipment materials and similar products 2008-12 (§ 7.3: Cold resistance - Ball drop test) DIN 53100 Metallic coatings - Electroplated coatings of nickel plus chromium and 2007-06 of copper plus nickel plus chromium on plastics materials (§ 7.5: Thermal cycle test (appendix D)) DIN 53497 Testing of plastics - Heat storage test of moulded articles made of thermoplastic moulding materials without outside mechanical stress 2017-04 - Method A: constant storage period - Method B: constant temperature BMW AA-0026 Ageing resistance test - Scope Exterior 2018-03 **BMW AA-0026** Ageing resistance test - Scope Exterior 2011-09 **BMW AA-P 275** Ageing resistance test 2006-05 Daimler DBL 5471 Supply specification - trim panels and molded padded parts for vehicle 2007-05 interiors (compound parts) (§ 4.2.2 + 4.3 - Dry-warm endurance test B (warm temperature test + color change) Daimler DBL 5471 Supply specification - trim panels and molded padded parts for vehicle 2007-05 interiors (compound parts) (§ 4.2.3 + 4.3 - Dry-hot endurance test (heat test) + color change)

Daimler DBL 5471

2007-05

Supply specification - trim panels and molded padded parts for vehicle

interiors (compound parts)

(§ 4.2.1 + 4.3 - Dry-warm endurance test A (warm temperature test) +

color change)

Daimler DBL 5306

2008-12

General technical delivery conditions and test methods for interior

equipment materials and similar products

§ 6.1: Heat resistance - Loose exposure

Daimler DBL 9202

2013-01

Supply Specification Decorative Parts in Vehicle Interiors

§ 9.3 Hot storage 1 - WL 1
 § 9.4 Hot storage 2 - WL 2
 § 9.5 Hot storage 3 - WL 3

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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 PV 3355 2014-10	PVC-parts contact heat storage
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
Renault D47 1165 1997-05	Plastics and products applied to the body in white or coated in paint - Accelerated ageing - heat storage (constant temperature)
Renault D47 1234 2010-02	Renault: 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 1234 1997-08	PSA Peugeot - Citroen: Parts containing plastic elements - Reaction to heat in a non-radiant dry oven
PSA D45 1139 2001-09	PSA Peugeot - Citroen: Covering materials - Dimensional variations and changes in appearance under 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 (§ 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
BMW AA-0420 2010-09	Hydrolysis at Leather
VW PV 3959	Hydrolysis Test on Molded Headliners with Laminated Decorative

Material in the Interior

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2019-04



VW PV 5015 BR Test Prescription - Resistance to hydrolysis in PU foams

2000-10

GMW 14357 For cellular and related materials: Determination of Resistance to

2017-03 Humidity ageing

Ford FLTM BI 106-03 Hydrolysis resistance of painted plastic panels

2001-03

# 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\*

PR 100.6 2017-11	Trim pane A, B, C and D pillar (here: § 2.2.2 Climatic test Decor adhesion PR 308)
PR 102.8 2018-03	Moulded headlining with add-on part (here: § 21.8 Decor adhesion (headlining) - § 2.1.9 Decor adhesion (console) - § 2.4.6 Foam insert bond adhesion)
PR 104.6 2017-12	Rear shelf with add-on parts (here: § 2.5 Edge stripping test - § 2.6 Separation force of attachments)
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)
PR 321.5 2013-09	Instrument-Panel (here: § 2.2.1.3 Foam and decor adhesion)
PR 326.5 2015-02	Vehicle door (here: § 3.1.4.1 Decor adhesion)
PR 380.4 2015-09	Floor mat (here: § 2.2.4 Separating force tests and bonding)
PR 375.5 2018-02	Textile trim components in the luggage compartment (here: § 2.1.7.2 Separating force test of two components)
PR 381.4 2013-04	Floor trim (here: § 2.3.2.3 Separating force test to DIN 53357)
PR 389.1 2013-11	Passenger compartment SI and trunk SI (here: § 2.3.3.4 Splitting force - § 2.3.4 Separation force)

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PR 388 2010-08	Engine Compartment Sound Insulation (here: § 2.2.3 parting Force 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)
MBN 55555-6 2018-02	Non-metallic material, material systems and semi-finished products - Part 6: Mechanical Test (here: § 5.24 Peel test for decorative goods)
DIN EN ISO 2411 2018-02	Rubber- or plastics-coated fabrics - Determination of coating adhesion
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

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

PR 309.1 2014-08	Vibration test for equipment components
PR 309.2 2016-03	Vibration test for trim components
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)
PR 034.2 2015-05	Folding table test specification Function and Continuous Load Test (here: § 4.8 Service life simulation, vibrations)
PR 261 2018-11	Outside rearview mirror (here: § 3.2.2.4 Vibration test)

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PR 265 Head lamps for dipped/main beam halogen, xenon and LED systems

(here: § 6.3.2 Mechanical shock - § 6.3.3 Vibration stress with 2012-06

superimposed temperature)

PR 266 Lights for exterior mount

(here: § 6.3.1 Mechanical shock test - § 6.3.2 Extended mechanical 2016-06

shock - § 6.3.3 Vibration stress with temperature overlapping)

PR 271 Wind screen wiper system 2015-01 (here: § 3.2.2 Vibration test)

Fuvo A2107200000 Function Specification - Door Paneling Assembly

2014-10 (here: § 4.8.10 Shaker test)

TSC3000G Toyota Lamp environmental reliability test

2015-02 (here: § 4.1.2 Vibration performance test - § 4.1.4 Environmental

vibration test)

GS95024 3 1 LV124

Electrical and electronic components in motor vehicles Environmental 2013-07

requirements and testing

(here: § 13.5 M05 Mechanical shock - § 13.4 M04 Vibration test profile

B and D - § 13.6 M06 Mechanical shock endurance)

#### 5 Stiffness, strength & force test\*

PR 100.6 Trim panel A-B-C- and D pillar

2017-11 (here: § 2.2.5.1 Pressure stiffness of pillar trim - § 2.2.8 Retainer/Clipse -

Retainer/Clip - § 2.2.5.2 Tensile strength of pillars, component stability -

§ 2.2.7.2 Installation force Cover cap Airbag)

PR 101.5 Roof grab handle and coat hook system

2018-03 (here: § 2.4.1 Static rigidity and strength on the grab handle system -

§ 2.4.4 Static tensile loading on coat hook)

PR 103.6 Sun visor test specification

2013-06 (here: § 2.1.2 Force required to clip in and out support)

PR 381.4 Floor trim

2013-04 (here: § 2.3.1 Strength and rigidity tests)

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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)
PR 104.6 2017-12	Rear shelf with add-on parts (here: § 2.2.2 Static stiffness and solidity test - § 2.6 Separation force of attachments - § 2.4.1 Operating forces)
PR 106.1 2012-08	D-pillar lift (here: § 3.4.3 Locking forces in case of manual actuation of the comfort opening)
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)
PR 209 2017-10	Sill finisher (here: § 3.2.1.2.3 Displacement force of the finisher)
PR 226 2010-11	Covering windshield panel (here: § 4.4 Component strength)
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)
PR 321.5 2013-09	Instrument panel (here: § 2.8 Rigidity and strength)
PR 223.2 2016-03	Buckling strength / Buckling resistance outer panel (here: § 5 Definition of requirements relating to buckling resistance and buckling strength)
PR 220 2009-07	Dent resistance plastic outer skin
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)
PR 376 2010-08	Clamping / stowing elements and mounts in the trunk (here: § 2.1.4.2 misuse for stowing nets)

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PR 375.5 2018-02	Textile trim components in the luggage compartment as per design described under item 1  (boro: 6.3.1.7.1 Strongth, and rigidity test, 6.3.3.1 Operation of flags.)
	(here: § 2.1.7.1 Strength- and rigidity test - § 2.2.1 Operation of flaps / service cap / floor panel / screen)
PR 372.3	Plastic parts in the trunk and passenger compartment bottom
2013-11	(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)
PR 326.5	Vehicle door
2015-02	(here: § 3.1.1.1 Rigidity and strength on the complete component)
PR 381.4	Floor trim
2013-04	(here: § 2.3.2.1 Puncture force)
PR 382.1	Foot support in passenger compartment
2010-08	(here: § 2.3.1 Puncture force - § 2.3.5 Pressure tests on foot support)
PR 380.4	Floor mat
2015-09	(here: § 2.2.1 Puncture force)

### 6 Photogrammetry

Determination\_of\_ Dimensional\_Photogrammetry/Tritop\_ Deformation\_ Analysis\_SHE 2017-03 Determination of Dimensional Photogrammetry/Tritop

**Deformation Analysis Shenyang** 

Period of validity: 30.04.2020 to 12.06.2023



### **Used abbreviations:**

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
DIN German Institute for Standardisation

EN European Standard

FLTM Ford Laboratory Test Method GMW General Motors Worldwide Hyundai MS Hyundai Material Specification

IEC International Electrotechnical Commission
ISO International Organization for Standardization

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

Period of validity: 30.04.2020 to 12.06.2023



### Deutsche Akkreditierungsstelle GmbH

Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

### **Accreditation**

The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

IMAT Shenyang Automotive Technology Co. Ltd. G8-G6/7 Guizhuxiang street, Sujiatun District, 110100 Shenyang, Liaoning province P.R. CHINA

is competent under the terms of ISO/IEC 17025:2005 to carry out tests in the following fields:

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

The accreditation certificate is valid until 12.06.2023. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 11 pages.

Registration number of the certificate: D-PL-20658-01-00

Dipl.-Ing. (FH) Ralf Egner

Head of Division

### Deutsche Akkreditierungsstelle GmbH

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DAkkS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

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EA: www.european-accreditation.org

ILAC: www.ilac.org IAF: www.iaf.nu