

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-11060-05-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 13.07.2023

Date of issue: 19.12.2023

Holder of accreditation certificate:

Dekra Automobil GmbH

with its testing laboratory

**Labor für Materialprüfung und Schadensanalytik
Unidekstraße 5, 75015 Bretten**

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.

mechanical, thermic and chemical-physical testing of metals, plastics and elastomers; analytical methods for analysing of materials; metallographical analysis; environmental simulations, corrosion tests and determination of resistance to chemicals; testings of surfaces and coatings; Testing within damage examintaions; Testing the burning behavior of materials used in vehicle interiors

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.

Abbreviations used: see last page

Page 1 of 5

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Annex to the Accreditation Certificate D-PL-11060-05-00

Within the scope of accreditation marked with *, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all testing procedures within the flexible scope of accreditation.

1 Mechanical tests *

DIN EN ISO 6506-1 2015-02	Metallic materials - Brinell hardness test - Part 1: Test method (HBW1/10, HBW 2,5/62,5 and HBW 2,5/187,5)
DIN EN ISO 6507-1 2018-07	Metallic materials - Vickers hardness test - Part 1: Test method (HV1 and HV10)
DIN ISO 48-4 2021-02	Rubber, vulcanized or thermoplastic - Determination of hardness - Part 4: Indentation hardness by durometer method (limitation: <i>without Shore AO and AM</i>)
DIN EN ISO 868 2003-10	Plastics and ebonite - Determination of indentation hardness by means of a durometer (limitation: <i>without Shore AO and AM</i>)
DIN 53504 2017-03	Testing of rubber - Determination of tensile strength at break, tensile stress at yield, elongation at break and stress values in a tensile test
DIN EN ISO 6892-1 2017-02	Metallic materials - Tensile testing - Part 1: Method of test at room temperature (<i>method A and method B</i>)
DIN EN ISO 527-2 2012-06	Plastics - Determination of tensile properties - Part 2: Test conditions for moulding and extrusion plastics
DIN EN ISO 527-3 2019-02	Plastics - Determination of tensile properties - Part 3: Test conditions for films and sheets
DIN EN ISO 179 2010-11	Plastics - Determination of Charpy impact properties - Part 1: Non-instrumented impact test
DIN EN ISO 180 2020-03	Plastics - Determination of Izod impact strength

Valid from: 13.07.2023

Date of issue: 19.12.2023

Annex to the Accreditation Certificate D-PL-11060-05-00

2 Analytic methods *

DIN EN ISO 11357-2 2020-08	Plastics - Differential scanning calorimetry (DSC) - Part 2: Determination of glass transition temperature and step height
DIN EN ISO 11357-3 2018-07	Plastics - Differential scanning calorimetry (DSC) - Part 3: Determination of temperature and enthalpy of melting and crystallization
DIN EN ISO 11358-1 2022-07	Plastics - Thermogravimetry (TG) of polymers - Part 1: General principles

3 Spectral analysis

PV-001_FT-IR 2016-06	Spectral analysis using IR spectrometer for plastics (thermoplastics, thermosets, elastomers) and organic compounds analysis
PV-002_OES 2016-06	Optical emission spectroscopy (OES - spark spectrometer) to determine chemical compounds of the following alloys: Iron, aluminium and copper base, rare earths

4 Environmental simulations, corrosion tests and determination of resistance to chemicals *

DIN EN ISO 9227 2017-07	Corrosion tests in artificial atmospheres - Salt spray tests (here: <i>chapter 3.2.2</i>)
DIN EN ISO 6270-2 2018-04	Paints and varnishes - Determination of resistance to humidity - Part 2: Condensation (in-cabinet exposure with heated water reservoir)

The flexibilization does not apply to the following factory standards or specifications:

PV1200 2019-10	Vehicle parts – testing for climate change resistance (80°C / -40°C)
PV2005 2021-06	Vehicle parts – testing the climate change resistance of special components, new developments and concepts

Valid from: 13.07.2023

Date of issue: 19.12.2023

Page 3 of 5

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Annex to the Accreditation Certificate D-PL-11060-05-00

5 Testings of surfaces and coatings *

DIN EN ISO 2409 2020-12	Paints and varnishes - Cross-cut test
ISO 2808 2019-12	Paints and varnishes - Determination of film thickness (here: <i>method 6A cross-section / polish</i>)

6 Testing the burning behavior of materials used in vehicle interiors *

DIN 75200 1980-09	Determination of burning behaviour of interior materials in motor vehicles
UNECE R118, Anhang 6 2015-04	Regulation No. 118 of the United Nations Economic Commission for Europe (UNECE) - Uniform technical regulations relating to the combustion behavior and/or property of materials used in the construction of motor vehicles of certain classes to repel fuel or lubricants [2015/622]
GB 8410 2006-01	Flammability of Automotive Interior Materials
FMVSS 302 2019-10	§ 571.302 Standard No. 302; Flammability of interior materials
CMVSS 302 2007-08	Flammability of Interior Materials
KMVSS Art. 95 2017-03	Article 95 - Flammability of Interior Materials

The flexibilization does not apply to the following factory standards or specifications:

TL 1010 2008-01	Interior materials, combustion behavior, material requirements
PTL 8501 (VW96243) 2020-10	Interior - burning behavior
DBL 5307 2019-07	Flame retardancy of interior parts
GS 97038 2016-03	Determination of the combustion behavior of automotive interior materials

Valid from: 13.07.2023

Date of issue: 19.12.2023

Annex to the Accreditation Certificate D-PL-11060-05-00

Abbreviations used:

CMVSS	Canada Motor Vehicle Safety Standard
DBL	Factory standard of Daimler AG
DIN	German institute for standardization
EN	European Standard
FMVSS	Federal Motor Vehicle Safety Standards
GB	National Standard of the People's Republic of China
GS	BMW Group Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
KMVSS	Korea Motor Vehicle Safety Standards
PTL	Test regulation of Porsche AG
PV	Testing procedure of Volkswagen AG
PV-00X_YZ	In house method of Labor für Materialprüfung und Schadensanalytik of Dekra Automobil GmbH
TL	Technical delivery specification of Volkswagen AG
UNECE	United Nations Economic Commission for Europe
VSTD	Vehicle Safety Certification Center, VSCC

Valid from: 13.07.2023

Date of issue: 19.12.2023

Page 5 of 5

This document is a translation. The definitive version is the original German annex to the accreditation certificate.