

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-19941-02-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 04.10.2021

Date of issue: 04.10.2021

Holder of certificate:

k-labor GmbH
Unidekstraße 5, 75015 Bretten

Tests in the fields:

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

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 methods within the flexible scope of accreditation.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

The certificate together with the annex reflects the status as indicated by the date of issue. The current status of any given scope of accreditation may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH <https://www.dakks.de/en/content/accredited-bodies-dakks>.

Abbreviations used: see last page

Page 1 of 3

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

Annex to the accreditation certificate D-PL-19941-02-00

1 Mechanical tests *

DIN EN ISO 6506-1 2015-02	Metallic materials - Brinell hardness test - Part 1: Test method
DIN EN ISO 6507-1 2018-07	Metallic materials - Vickers hardness test - Part 1: Test method
DIN ISO 48-4 2021-02	Rubber, vulcanized or thermoplastic - Determination of hardness - Part 4: Indentation hardness by durometer method (Shore hardness)
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 2020-06	Metallic materials - Tensile testing - Part 1: Method of test at room temperature (here: <i>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

2 Analytic methods *

DIN EN ISO 11357-2 2020-08	Plastics - Differential scanning calorimetry (DSC) - Part 2: Determination of glass transition temperature and glass transition 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

3 Spectral analysis

PV-001_FT-IR 2016-06	Spectral analysis using IR spectrometer for plastics (thermoplastics, thermosets, elastomers) and organic compounds analysis (here: <i>only qualitative measuring</i>)
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

Annex to the accreditation certificate D-PL-19941-02-00**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)
DIN 75200 1980-09	Determination of burning behaviour of interior materials in motor vehicles

5 Testings of surfaces and coatings *

DIN EN ISO 2409 2020-12	Paints and varnishes - Cross-cut test
DIN EN ISO 2808 2019-02	Paints and varnishes - Determination of film thickness (here: <i>method 6A cross-section / polish</i>)

abbreviations used:

DIN	German Institute for Standardization
EN	European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
PV-00X_YZ	In house method of the k-labor GmbH