

Accreditation



The Deutsche Akkreditierungsstelle attests with this **Accreditation Certificate** that the testing laboratory

KRAIBURG TPE GmbH & Co. KG
Friedrich-Schmidt-Straße 2, 84478 Waldkraiburg

meets the requirements according to DIN EN ISO/IEC 17025:2018 for the conformity assessment activities listed in the annex to this certificate. This includes additional existing legal and normative requirements for the testing laboratory, including those in relevant sectoral schemes, provided they are explicitly confirmed in the annex to this certificate.

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.

This accreditation was issued in accordance with Art. 5 Para. 1 Sentence 2 of Regulation (EC) 765/2008, after an accreditation procedure was carried out in compliance with the minimum requirements of DIN EN ISO/IEC 17011 and on the basis of a review and decision of the appointed accreditation committees.

This accreditation certificate only applies in connection with the notices of 27.03.2023 with accreditation number D-PL-22216-01.

It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 4 pages.

Registration number of the accreditation certificate: **D-PL-22216-01 -00**

Berlin, 27.03.2023

Dr.-Ing Tobias Poeste
Head of Technical Unit

Translation issued:
18.07.2023

Dr.-Ing Tobias Poeste
Head of Technical Unit

*in Vertretung
G. Akgün*

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 can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH (www.dakks.de).

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

See notes overleaf

Deutsche Akkreditierungsstelle GmbH

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The Deutsche Akkreditierungsstelle GmbH (DAkkS) is the entrusted national accreditation body of the Federal Republic of Germany according to § 8 section 1 AkkStelleG in conjunction with § 1 section 1 AkkStelleGBV. DAkkS is designated as the national accreditation authority by Germany according to Art. 4 Para. 4 of Regulation (EC) 765/2008 and clause 4.7 of DIN EN ISO/IEC 17000.

Pursuant to Art. 11 section 2 of Regulation (EC) 765/2008, the accreditation certificate shall be recognised as equivalent by the national authorities within the scope of this Regulation as well as by the WTO member states that have committed themselves in bilateral or multilateral mutual agreements to recognise the certificates of accreditation bodies that are members of ILAC or IAF as equivalent.

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 Co-operation (ILAC).

The up-to-date state of membership can be retrieved from the following websites:

EA: www.european-accreditation.org
ILAC: www.ilac.org
IAF: www.iaf.nu

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-22216-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: **27.03.2023**

Date of issue: 18.07.2023

Holder of accreditation certificate:

KRAIBURG TPE GmbH & Co. KG
Friedrich-Schmidt-Straße 2, 84478 Waldkraiburg

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.

Tests in the fields of:

Physical, mechanical-technological, environmental and fire tests of plastics

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.

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>.

1. mechanical-technological tests of plastics

ISO 37 2017-11	Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties
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 ISO 34-1 2016-09	Rubber, vulcanized or thermoplastic - Determination of tear strength – Part 1: Trouser, angle and crescent test pieces
ISO 34-2 2022-06	Rubber, vulcanized or thermoplastic - Determination of tear strength - Part 2: Small (Delft) test pieces
DIN ISO 815-1 2022-04	Rubber, vulcanized or thermoplastic - Determination of compression set – Part 1: At ambient or elevated temperatures
DIN ISO 2285 2022-11	Rubber, vulcanized or thermoplastic - Determination of tension set under constant elongation, and of tension set, elongation and creep under constant tensile load
DIN ISO 48-4 2021-02	Rubber, vulcanized or thermoplastic - Determination of hardness – Part 4: Indentation hardness by durometer method (Shore hardness)
DIN ISO 48-2 2021-02	Rubber, vulcanized or thermoplastic - Determination of hardness – Part 2: Hardness between 10 IRHD and 100 IRHD
DIN EN ISO 868 2003-10	Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness)
DIN 53236 2018-02	Colouring materials - Conditions of measurement and evaluation for the determination of colour differences for paint coatings, similar coatings and plastics
DIN EN 20105-A02 1994-10	Textiles - Tests for colour fastness - Part A02: Grey scale for assessing change in colour
DIN EN ISO 1133-1 2022-10	Plastics - Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics - Part 1: Standard method
VDI 2019 2016-04	Testing of adhesion of thermoplastic elastomers (TPE) to substrates

2. physical testing of plastics

DIN EN ISO 1183-1 2019-09	Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method (here: <i>only method A, immersion method</i>)
ISO 2781 2018-06	Rubber, vulcanized or thermoplastic - Determination of density (here: <i>only method A, immersion method</i>)
ISO 1407 2011-12	Rubber - Determination of solvent extract
DIN 75201 2011-11	Determination of the fogging characteristics of trim materials in the interior of automobiles (here: <i>only method B, gravimetric determination</i>)
DIN EN ISO 11357-1 2017-02	Plastics - Differential scanning calorimetry (DSC) - Part 1: General principles
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
ISO 9924-3 2009-03	Rubber and rubber products - Determination of the composition of vulcanizates and uncured compounds by thermogravimetry - Part 3: Hydrocarbon rubbers, halogenated rubbers and polysiloxane rubbers after extraction
DIN EN ISO 11358-1 2022-07	Plastics - Thermogravimetry (TG) of polymers - Part 1: General principles

3. environmental and fire tests of plastics

DIN 75200 1980-09	Determination of burning behaviour of interior materials in motor vehicles
49 CFR PART 571 302 2021-10	§571.302 Standard No. 302 - Flammability of interior materials
ISO 188 2011-10	Rubber, vulcanized or thermoplastic - Accelerated ageing and heat resistance tests
DIN EN ISO 105-B06 2020-12	Textiles - Tests for colour fastness - Part B06: Colour fastness and ageing to artificial light at high temperatures: Xenon arc fading lamp test
DIN EN ISO 4892-2 2021-11	Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps
PV 3929 2023-01	Non-metallic materials - weathering in dry-hot climate (exterior) <i>(not flexibel accredited)</i>
PV 3930 2023-01	Non-metallic materials - weathering in warm and humid climates (exterior) <i>(not flexibel accredited)</i>

Abbreviations used:

CFR	Code of Federal Regulations
DIN	Deutsches Institut für Normung e.V. – German institute for standardization
EN	Europäische Norm – European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardisation
PV	Prüfverfahren der VOLKSWAGEN AG
VDI	Verein Deutscher Ingenieure