

Accreditation



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

Göttfert Werkstoff-Prüfmaschinen GmbH
Siemensstraße 2, 74722 Buchen

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 12.09.2023 with accreditation number D-PL-17291-01.

It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 5 pages.

Registration number of the accreditation certificate: **D-PL-17291-01-00**

Berlin, 12.09.2023

Dr.-Ing. Tobias Poeste
Head of Technical Unit

Translation issued:
12.09.2023



Dr.-Ing. Tobias Poeste
Head of Technical Unit

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-17291-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 12.09.2023

Date of issue: 12.09.2023

Holder of accreditation certificate:

Göttfert Werkstoff-Prüfmaschinen GmbH
Siemensstraße 2, 74722 Buchen

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.

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>.

Annex to the Accreditation Certificate D-PL-17291-01-00

Tests in the fields:

rheological tests at plastics all sorts in solid and liquid state of aggregation and at elastomers; tests of thermal properties for dispersibility; testing of rheological testing facilities; determination of the parameters of rheological test facilities and procedures

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 Rheological tests at plastics and elastomers

1.1 Tests of viscosity according standards ***

ASTM D3835-16 2016	Standard Test Method for Determination of Properties of Polymeric Materials by Means of a Capillary Rheometer
ASTM D6204-19a 2019	Standard Test Method for Rubber-Measurement of Unvulcanized Rheological Properties Using Rotorless Shear Rheometers
ASTM D6601-19 2019	Standard Test Method for Rubber Properties - Measurement of Cure and After-Cure Dynamic Properties Using a Rotorless Shear Rheometer
ISO 11443 2014-04	Plastics - Determination of the fluidity of plastics using capillary and slit-die rheometers

1.2 Prüfung des Fließverhaltens ***

ASTM D1238-13 2013	Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer
ASTM D1646-19a 2019	Standard Test Methods for Rubber-Viscosity, Stress Relaxation, and Pre-Vulcanization Characteristics (Mooney Viscometer)
DIN 53523-3 1976-11	Testing of Rubber and Elastomers; Testing with the Mooney Shearing Disk Viscometer; Determining the Mooney Viscosity

Valid from: 12.09.2023

Date of issue: 12.09.2023

Annex to the Accreditation Certificate D-PL-17291-01-00

DIN EN ISO 1133-1 2012-03	Plastics - Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics - Part 1: Standard method
DIN EN ISO 1133-2 2012-03	Plastics - Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics - Part 2: Method for materials sensitive to time-temperature history and/or moisture
DIN 53523-4 1976-11	Testing of Rubber and Elastomers; Testing with the Mooney Shearing Disk Viscometer; Determining the Scorching Behaviour
ISO 289-1 2015-09	Rubber, unvulcanized - Determinations using a shearing-disc viscometer - Part 1: Determination of Mooney viscosity
ISO 289-2 2016-02	Rubber, unvulcanized - Determinations using a shearing-disc viscometer - Part 2: Determination of pre-vulcanization characteristics
ISO 289-3 2015-10	Rubber, unvulcanized - Determinations using a shearing-disc viscometer - Part 3: Determination of the Delta Mooney value for non-pigmented, oil-extended emulsion-polymerized SBR
PD ISO/TS 289-4 2017-09	Rubber, unvulcanized - Determinations using a shearing-disc viscometer - Part 4: Determination of the Mooney stress-relaxation rate

Flexibility does not apply to the following test procedure:

GFT014 2002-11	Determination of processing properties of plastics and elastomers with the Rheovulkameter
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1.3 Other rheological tests according standards ***

ASTM D3835-16 2016	Standard Test Method for Determination of Properties of Polymeric Materials by Means of a Capillary Rheometer (here: 10.9, <i>Measuring extrudate diameter</i>)
ASTM D5289-19a 2019	Standard Test Method for Rubber Property - Vulcanization Using Rotorless Cure Meters
DIN 53529-2 1983-03	Testing of rubber and elastomers; measurement of vulcanization characteristics (curometry); evaluation of cross-linking isotherms in terms of reaction kinetics

Valid from: 12.09.2023

Date of issue: 12.09.2023

Annex to the Accreditation Certificate D-PL-17291-01-00

DIN 53529-3 1983-06	Testing of rubbers; curemetry; types and applications of rotorless curemeters
ISO 6502-1 2018-07	Rubber - Measurement of vulcanization characteristics using curemeters - Part 1: Introduction
ISO 11443 2014-04	Plastics - Determination of the fluidity of plastics using capillary and slit-die rheometers (here 7.9, <i>Measurement of extrudate swelling</i>)

Flexibility does not apply to the following test procedure:

GFT010 2002-11	Rheotens - A test method for determining the melt expansion
GFT011 2002-11	Determination of the melt density
GFT-D-Melt 2018-08	Combined measurement method to determine the MVR- and/or MFR-value together with an index of melt elasticity

2 Tests of thermal properties ***

ASTM D 5930 2017	Standard Test Method for Thermal Conductivity of Plastics by Means of a Transient Line-Source Technique
ISO 17744 2004-11	Plastics - Determination of specific volume as a function of temperature and pressure (pvT diagram) - Piston apparatus method

3 Testing of rheological testing facilities; Determination of the parameters of rheological test facilities and procedures

GFT 100 07-2020	Testing of torque transducers on testing machines
GFT 101 07-2020	Testing the drive speed on testing machines
GFT 102 07-2020	Testing the speed on testing machines
GFT 103 07-2020	Testing the amplitude of testing machines

Valid from: 12.09.2023
Date of issue: 12.09.2023

Annex to the Accreditation Certificate D-PL-17291-01-00

GFT 104 07-2020	Testing of time measurement on testing machines
GFT 105 07-2020	Testing the test piston on testing machines
GFT 106 07-2020	Testing of the test barrel on testing machines
GFT 107 07-2020	Testing the capillary die on testing machines
GFT 108 07-2020	Checking the rotor height on testing machines
GFT 109 07-2020	Testing the test chamber gap on testing machines
GFT 111 07-2020	Checking the chamber dimensions on testing machines
GFT 112 07-2020	Testing the temperature on testing machines
GFT 113 07-2020	Testing the frequency on testing machines
GFT 114 07-2020	Testing the position measurement on testing machines
GFT 115 07-2020	Testing of force measuring devices / weights on testing machines
GFT 116 07-2020	Testing of pressure transducers on testing machines

Abbreviations used:

ASTM	American Society for Testing and Materials
DIN	German institute for standardization
EN	European Standard
GFT	In-house method of the Göttfert Werkstoff-Prüfmaschinen GmbH
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization

Valid from: 12.09.2023

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