

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-14121-04-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 14.04.2020

Date of issue: 19.06.2020

Holder of certificate:

BASF SE
Carl-Bosch-Straße 38, 67056 Ludwigshafen

for the testing laboratory

BASF SE
E-PME/NQ-Materials Testing
H201, 67056 Ludwigshafen

Tests in the fields:

physical, mechanical and technological, environmental and fire testing of plastics and textiles

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

Abbreviations used: see last page

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

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1 Static testing

DIN EN ISO 178 2013-09	Plastics - Determination of flexural properties
DIN ISO 34-1 2016-09	Rubber, vulcanized or thermoplastic - Determination of tear strength - Part 1: Trouser, angle and crescent test pieces
ISO 37 2017-11	Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties
DIN EN ISO 527-1 2019-12	Plastics - Determination of tensile properties - Part 1: General principles
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 604 2003-12	Plastics - Determination of compressive properties
ASTM D 638 2014	Standard Test Method for tensile properties of plastics
ASTM D 790 2017	Standard Test Methods for flexural properties of unreinforced and reinforced plastics and electrical insulating materials
DIN 53363 2003-10	Testing of plastic films - Tear test using trapezoidal test specimen with incision

2 Dynamic testing

DIN EN ISO 180 2013-08	Plastics - Determination of Izod impact strength
DIN EN ISO 179-1 2010-11	Plastics - Determination of Charpy impact properties - Part 1: Non-instrumented impact test
DIN EN ISO 179-2 2012-06	Plastics - Determination of Charpy impact properties - Part 2: Instrumented impact test

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DIN EN ISO 8256 2005-05	Plastics - Determination of tensile-impact strength
ASTM D 256 2010	Standard test methods for determining the izod pendulum impact resistance of plastics

3 Ageing

DIN EN 60216-1 2014-01	Electrical insulating materials - Thermal endurance properties - Part 1: Ageing procedures and evaluation of test results
E DIN EN ISO 60216-3 2018-12	Electrical insulating materials - Thermal endurance properties - Part 3: Instructions for calculating thermal endurance characteristics
DIN EN 60216-5 2009-02	Electrical insulating materials - Thermal endurance properties - Part 5: Determination of relative thermal endurance index (RTE) of an insulating material
DIN EN 60216-6 2007-06	Electrical insulating materials - Thermal endurance properties - Part 6: Determination of thermal endurance indices (TI and RTE) of an insulating material using the fixed time frame method
DIN EN ISO 2578 1998-10	Plastics - Determination of time-temperature limits after prolonged exposure to heat

4 Flow behavior

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
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5 Viscosity

DIN EN ISO 1628-1 2012-10	Plastics - Determination of the viscosity of polymers in dilute solution using capillary viscometer - Part 1: General principles
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ISO 1628-5
2015-05 Plastics - Determination of the viscosity of polymers in dilute solution using capillary viscometers - Part 5: Thermoplastic polyester (TP) homopolymers and copolymers

DIN EN ISO 307
2019-11 Plastics - Polyamides - Determination of viscosity number

6 Thermal analysis

ISO 11357-1
2017-02 Plastics - Differential scanning calorimetry (DSC) - Part 1: General principles

DIN EN ISO 11357-2
2014-07 Plastics - Differential scanning calorimetry (DSC) - Part 2: Determination of glass transition temperature and glass transition step height

ISO 11357-3
2018-03 Plastics - Differential scanning calorimetry (DSC) - Part 3: Determination of temperature and enthalpy of melting and crystallization

DIN EN ISO 11358
2014-10 Plastics - Thermogravimetry (TG) of polymers - General principles

7 Softening temperatures

DIN EN ISO 75-1
2019-03 Plastics - Determination of temperature of deflection under load - Part 1: General test method

DIN EN ISO 75-2
2013-08 Plastics - Determination of temperature of deflection under load - Part 2: Plastics and ebonite

DIN EN ISO 306
2014-03 Plastics - Thermoplastic materials - Determination of Vicat softening temperature (VST)

ASTM D 648
2018 Standard test method for deflection temperature of plastics under flexural load in the edgewise position

ASTM D 1525
2017 Standard test method for VICAT softening temperature of plastics

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8 Colour

ISO 4582 2017-08	Plastics - Determinations of changes in colour and variations in properties after exposure to daylight under glass, natural weathering or artificial light sources
DIN 6167 1980-01	Description of yellowness of near-white or near-colourless materials
DIN 53236 2018-02	Colouring materials - Conditions of measurement and evaluation for the determination of colour differences for paint coatings, similar coatings and plastics

9 Light characteristic numbers

DIN EN ISO 2813 2015-02	Paints and varnishes - Determination of gloss value at 20°, 60° and 85°
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10 Light fastness

DIN EN ISO 4892-1 2016-10	Plastics - Methods of exposure to laboratory light sources - Part 1: General guidance
DIN EN ISO 4892-2 2013-06	Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps
SAE J 2412 2015-08	Accelerated exposure of automotive interior trim components using a controlled irradiance xenon-arc apparatus
SAE J 2527 2017-09	Accelerated exposure of automotive exterior materials using a controlled irradiance xenon arc apparatus

11 Colour fastness

DIN EN 20105-A02 1994-10	Textiles - Tests for colour fastness - Part A02: Grey scale for assessing change in colour
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12 Fogging behaviour and smell behaviour

DIN 75201 2011-11	Determination of the fogging characteristics of trim materials in the interior of automobiles
VDA 270 2018-06	Determination of the odour characteristics of trim materials in motor vehicles

13 Physical characteristics numbers

DIN EN ISO 1183-1 2013-04	Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method
DIN EN ISO 15512 2017-03	Plastics - Determination of water content

14 Gravimetry

DIN EN ISO 1172 1998-12	Textile-glass-reinforced plastics - Prepregs, moulding compounds and laminates - Determination of the textile-glass and mineral-filler content - calcination methods
DIN EN ISO 3451-1 2019-05	Plastics - Determination of ash - Part 1: General methods
DIN EN ISO 3451-4 2001-08	Plastics - Determination of ash - Part 4: Polyamides

15 Primary burning properties

DIN EN 60695-2-10 2014-04	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure
DIN EN 60695-2-11 2014-11	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT)
DIN EN 60695-2-12 2015-01	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials

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DIN EN 60695-2-13 2015-01	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials
DIN EN 60695-10-2 2016-01	Fire hazard testing - Part 10-2: Abnormal heat - Ball pressure test method
DIN EN 60695-11-10 2014-10	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods
DIN EN 60695-11-20 2016-04	Fire hazard testing - Part 11-20: Test flames - 500 W flame test methods
DIN EN 60695-11-3 2014-10	Fire hazard testing - Part 11-3: Test flames - 500 W flames - Apparatus and confirmational test methods
DIN EN 60695-11-4 2013-05	Fire hazard testing - Part 11-4: Test flames - 50 W flame - Apparatus and confirmational test method
UL 94 2015-01	Test for flammability of plastics materials for parts in devices and appliances

Abbreviations used:

ASTM	American Society for Testing and Materials
DIN	Deutsches Institut für Normung e. V.
EN	European standard
IEC	International Electro Technical Commission
ISO	International Organization for Standardization
SAE	Society of Automotive Engineers
UL	Underwriters Laboratories
VDA	Verband der Automobilindustrie

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