

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-18196-01-00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 11.07.2018 to 10.07.2023

Date of issue: 25.10.2018

Holder of certificate:

IKT - Institut für Unterirdische Infrastruktur gGmbH
Prüfstelle für Bauprodukte

for the locations

Exterbruch 1, 45886 Gelsenkirchen
Kantoorgebouw „De Enk“, Tivolilaan 205, 6824 BV Arnheim, Niederlande

Tests in the fields:

selected mechanical-technological and thermoanalytical tests at plastics, polymeric components of pipeline- and liner systems as well as GFK-laminate excerpts

Abbreviations used: see last page

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 testing methods are marked with the following specified symbols of the locations, at which they are accomplished:

GE = Gelsenkirchen

NL = Niederlande (Arnheim)

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DIN EN ISO 178 2013-09	Plastics - Determination of flexural properties	GE NL
DIN EN ISO 527-1 2012-06	Plastics - Determination of tensile properties - Part 1: General principles (here: <i>section 9</i>)	GE
DIN EN ISO 527-2 2012-06	Plastics - Determination of tensile properties - Part 2: Test conditions for moulding and extrusion plastics	GE
DIN EN ISO 527-3 2003-07	Plastics - Determination of tensile properties - Part 3: Test conditions for films and sheets	GE
DIN EN ISO 527-4 1997-07	Plastics - Determination of tensile properties - Part 4: Test conditions for isotropic and anisotropic fibre-reinforced plastic composites	GE
DIN EN ISO 527-5 2010-01	Plastics - Determination of tensile properties - Part 5: Test conditions for unidirectional fibre-reinforced plastic composites	GE
DIN EN ISO 899-2 2015-06	Plastics - Determination of creep behaviour - Part 2: Flexural creep by three-point loading	GE NL
DIN EN 1228 1996-08	Plastics piping systems - Glass-reinforced thermosetting plastics (GRP) pipes - Determination of initial specific ring stiffness	GE NL
ISO 7685 1998-07	Plastics piping systems - Glass-reinforced thermosetting plastics (GRP) pipes - Determination of initial specific ring stiffness	GE NL
DIN EN 13566-4 2003-04	Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks - Part 4: Lining with cured-in-place pipes (here: <i>Annex C, D</i>) (<i>withdrawn standard</i>)	GE NL
DIN 16869-2 1995-12	Centrifugally cast filled glass fibre reinforced unsaturated polyester resin (UP-GF) pipes - Part 2: General quality requirements, testing (here: <i>Chapter 6.10, 6.10.1, 6.10.2</i>) (<i>withdrawn standard</i>)	GE NL
APS-Guideline 15.09.2004	Waterlightness of lining with cured-in-place pipes	GE NL
DWA-A 143-3 2014-05	Rehabilitation of Drainage Systems outside Buildings - Part 3: Lining with cured-in-place pipes (CIPP) (here: <i>Test 7.2.9 Leak test of the material sample of the hose liner</i>)	GE NL

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ZTV Materialprüfung Schlauchliner 29.06.2009	Additional conditions of contracts (ZTV) for material testing of samples of lining with cured-in-place pipes by working group of municipalities of southern Germany (here: <i>Chapter 3.1 to 3.3 and 3.8 (GE, NL) and Chapter 3.5 (GE)</i>)	GL NL
DIN EN ISO 11296-4 2011-07	Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks - Part 4: Lining with cured-in-place pipes (here: <i>Annex B, C, D</i>)	GE NL
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	GE
DIN 53765 1994-03	Testing of plastics and elastomers - Thermal analysis - DSC-method (<i>withdrawn standard</i>)	GE
DIN EN ISO 11357-1 2017-02	Plastics - Differential scanning calorimetry (DSC) - Part 1: General principles (here: <i>section 9</i>)	GE
DIN EN ISO 11357-2 2014-07	Plastics - Differential scanning calorimetry (DSC) - Part 2: Determination of glass transition temperature and glass transition step height	GE
ISO 11357-2 2013-05	Plastics - Differential scanning calorimetry (DSC) - Part 2: Determination of glass transition temperature and glass transition step height	GE

abbreviations used:

DIN	German Institute for Standardization
EN	European Standard
ISO	International Organization for Standardization
APS	Working Group of Institute for Lining
DWA	German Association for Water, Wastewater and Waste r. a. (DWA)
ZTV	Additional conditions of contracts