

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-11080-01-00 according to DIN EN ISO/IEC 17025:2005

Valid from: 26.06.2020

Date of issue: 21.08.2020

Holder of certificate:

**HESSEL Ingenieurtechnik GmbH
Am Münsterwald 3, 52159 Roetgen**

Tests in the fields:

mechanical-technological tests on thermoplastics and evaluation processes according long-term behaviour

DIN EN 12814-3 2014-07	Testing of welded joints of thermoplastics semi-finished products - Part 3: Tensile creep test (including: <i>annex A.1: Full notch creep test (FNCT)</i> <i>annex A.2: Two notch creep test (2NCT)</i> <i>annex C: Minimum creep rupture time of the parent material (t_{tm}) for applicability of the long-term welding factor</i> <i>annex D: Testing of socket joint)</i>
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
PAS 1075 2009-04	Pipes made from polyethylene for alternative installation techniques - Dimensions, technical Requirements and Testing (here: <i>only annex A1 to A6</i>)
DVS 2203-4 1997-07	Testing of welded joints of thermoplastics plates and tubes - Tensile creep test

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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DVS 2203-4 Supplement 1 2001-12	Testing of welded joints of thermoplastic sheets and pipes - Tensile creep test - Testing of socket joints
DVS 2203-4 Supplement 2 2016-09	Testing of welded joints of thermoplastic sheets and pipes - Tensile creep test for resistance to slow crack growth in the full notch creep test (FNCT)
DVS 2203-4 Supplement 3 2015-03	Testing of welded joints of thermoplastic sheets and pipes - Tensile creep test - Checking the required tensile creep test weld strength reduction factor and the minimum service life of polyethylene welded joints (PE 80 and PE 100)
DVS 2203-4 Supplement 4 2016-09	Testing of welded joints of thermoplastic sheets and pipes - Tensile creep test for resistance to slow crack growth in the full notch creep test (2NCT)

Abbreviations used:

DIN	German Institute for Standardisation
DVS	German Welding Society
EN	European Standard
FNCT	Full Notch Creep Test
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
PAS	Publicly Available Specification

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