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item Industrietechnik Base Profile X 8 **Report No. IT 2207-1335**

Statement of Qualification

Single product
Outgassing Behavior
VOC/SVOC





Statement of Qualification • Single product

item Industrietechnik GmbH Customer

> Friedenstrasse 107-109 42699 Solingen Germany

Component tested

Materials Category:

Plastics Subcategory

Product name: Fixing System, Base Profile X 8, grey

(manufacturing date: 2022; color: grey; article number: 0.0.713.08)

Emission chamber measurements with purge-and-trap thermodesorption method and gas chromatography combined with mass spectrometry (TD-GC/MS)

Standards/Guidelines:

Testing equipment:

Sample storage:

Test procedure parameters:

ISO 14644-8, -15; ISO 16000-6, -9, -11, -25; VDI 2083 Part 17 The norms stated generally refer to the version valid at the time of the tests.

- Measuring station: PerkinElmer Clarus 600, Clarus 600T, ATD 650
- Sampling chamber:......Markes International µCTE
- Pre-conditioning:
- Cleanroom Air Cleanliness Class (according to ISO 14644-1):.......... ISO 1 - Airflow type: vertical laminar flow
- Retention range (VOC): C6 to C16
- Outgassing test temperatures:23 °C and 90 °C

Test result/Classification

The outgassing behavior of the Fixing System, Base Profile X 8, grey at the stated temperatures was investigated according to VDI 2083 Part 17 and ISO 14644-15. Based on the outgassing rates determined for the specific surfaces, the following material classification was made for the corresponding Contaminant Category:

Contaminant Category (x)	SER_a¹¹ 23°C [g/m²s]	SER _a ¹⁾ 90 °C [g/m²s]	ISO-ACC _m Class (x) based on 23°C
VOC	3.6 x 10 ⁻⁹	2.0 x 10 ⁻⁷	-8.4
SVOC	< 2.8 x 10 ⁻¹⁰	1.3 x 10 ⁻⁸	< -9.6
Amines	< 2.8 x 10 ⁻¹⁰	< 1.7 x 10 ⁻⁹	
Organophosphates	< 2.8 x 10 ⁻¹⁰	< 1.7 x 10 ⁻⁹	
Siloxanes	< 2.8 x 10 ⁻¹⁰	< 1.7 x 10 ⁻⁹	
Phthalates	< 2.8 x 10 ⁻¹⁰	< 1.7 x 10 ⁻⁹	

1) SER₃: Area-specific emission rate

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

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on behalf of A Buil

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