



ASSA ABLOY
Report No. AL 2203-1312

Cleanroom[®] Suitable Materials

PVC 1.4 mm transparent
Outgassing VOC / SVOC
ISO-ACC_m Class -5.1 / -7.5

FLOORING & COATING

Single product Outgassing Behavior VOC/SVOC

Qualification Certificate

We hereby certify that the material stated above, provided by

ASSA ABLOY Entrance Systems
Landskrona, Sweden

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number AL 2203-1312.

The outgassing behavior of PVC 1.4 mm transparent, ASSA ABLOY 4001R0021 (color: transparent) 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 _a ¹⁾ 23 °C [g/m ² s]	SER _a ¹⁾ 90 °C [g/m ² s]	ISO-ACC _m Class (x) based on 23 °C
VOC	8.0 x 10 ⁻⁶	4.7 x 10 ⁻⁵	-5.1
SVOC	3.4 x 10 ⁻⁸	4.6 x 10 ⁻⁷	-7.5
Amines	7.8 x 10 ⁻⁷	3.4 x 10 ⁻⁶	--
Organophosphates	< 2.8 x 10 ⁻¹⁰	< 1.7 x 10 ⁻⁹	--
Siloxanes	1.2 x 10 ⁻⁹	7.7 x 10 ⁻⁹	--
Phthalates	< 2.8 x 10 ⁻¹⁰	< 1.7 x 10 ⁻⁹	--

¹⁾SER_a: Area-specific emission rate

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Stuttgart, April 28, 2022
Place, date of first document issued

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Place, current date

on behalf of 
Dr.-Ing. Udo Gommel, Project Manager Fraunhofer IPA

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under www.tested-device.com.

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