



Fraunhofer

TESTED[®] DEVICE

igus GmbH

RN342

Report No. IG 2110-1268

Single product
Outgassing Behavior
VOC/SVOC

Qualification Certificate

This is to certify that the product mentioned above, provided by

igus GmbH
Cologne, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE
bearing the report number IG 2110-1268.

The outgassing behavior of the tile made from RN342 material
(color: black) 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	2.0 x 10 ⁻⁷	2.5 x 10 ⁻⁶	-6.7
SVOC	1.2 x 10 ⁻⁸	4.1 x 10 ⁻⁷	-7.9
Amines	< 2.8 x 10 ⁻¹⁰	< 1.7 x 10 ⁻⁹	--
Organophosphates	< 2.8 x 10 ⁻¹⁰	< 1.7 x 10 ⁻⁹	--
Siloxanes	4.3 x 10 ⁻¹⁰	< 1.7 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, January 21, 2022
Place, date of first document issued

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Report No. current document

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Place, current date

on behalf of 
Dr.-Ing. Frank Bürger, 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.



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