

Trespa International B.V. Report No. TR 2108-1248

Cleanroom[®] Suitable Materials

TopLab PLUS

Outgassing Inorganic Acids ISO-ACC_m Class < -8.5

FLOORING & COATING

Single product Outgassing Behavior Inorganic Acids

Qualification Certificate

We hereby certify that the material stated above, provided by

Trespa International B.V. Weert, The Netherlands

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number TR 2108-1248.

The outgassing behavior of TopLab PLUS (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/m²s]	SER_a¹⁾ 90°C [g/m²s]	ISO-ACC _m Class (x) based on 23°C
HF	< 2.9 x 10 ⁻⁹	< 2.9 x 10 ⁻⁹	< -8.5
HCI	< 2.9 x 10 ⁻⁹	< 2.9 x 10 ⁻⁹	< -8.5
HBr	< 2.9 x 10 ⁻⁹	< 2.9 x 10 ⁻⁹	< -8.5
HNO ₃	< 2.9 x 10 ⁻⁹	< 2.9 x 10 ⁻⁹	< -8.5
H ₃ PO ₄	< 2.9 x 10 ⁻⁹	< 2.9 x 10 ⁻⁹	< -8.5
H ₂ SO ₄	< 2.9 x 10 ⁻⁹	< 2.9 x 10 ⁻⁹	< -8.5

1) SER_a: Area-specific emission rate

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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Report No. first document

Report No. current document

Stuttgart, October 28, 2021

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Place, current dat

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

