



Cleanroom[®] Suitable Materials

Forbo Giubiasco SA
Report No. FO 1702-889

Colorex SD
Outgassing VOC/SVOC
ISO-ACC_m Class -5.2/-9.5

FLOORING & COATING

Outgassing Behavior VOC/SVOC

Qualification Certificate

We hereby certify that the material stated above, provided by

Forbo Giubiasco SA
Giubiasco, Switzerland

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number FO 1702-889.

The outgassing behavior of Colorex SD at the stated temperatures was investigated according to VDI 2083 Part 17. 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	6.0 x 10 ⁻⁶	8.4 x 10 ⁻⁶	-5.2
SVOC	3.5 x 10 ⁻¹⁰	1.4 x 10 ⁻⁷	-9.5
Amines	< 2.8 x 10 ⁻¹⁰	< 4.6 x 10 ⁻⁹	--
Organophosphates	< 2.8 x 10 ⁻¹⁰	< 4.6 x 10 ⁻⁹	--
Siloxanes	< 2.8 x 10 ⁻¹⁰	< 4.6 x 10 ⁻⁹	--
Phthalates	< 2.8 x 10 ⁻¹⁰	9.8 x 10 ⁻⁸	--

¹⁾ SER_a: Area-specific emission rate

Detailed information regarding specific product data such as date of manufacture, color, and serial number as well as test environment and parameters can be obtained from the CSM test report issued by the Fraunhofer-Gesellschaft.

FO 1702-889
Report No. first document

Stuttgart, October 17, 2017
Place, date of first document issued

--
Report No. current document

--
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.

DUPLICATE