



Cleanroom[®] Suitable Materials

TOTAL RESEARCH &
TECHNOLOGY FELUY
Report No. TO 1705-913

TEC_PS_0004
Outgassing VOC/SVOC
ISO-ACC_m Class -7.7/-7.9

FLOORING & COATING

Outgassing Behavior VOC/SVOC

Qualification Certificate

We hereby certify that the material stated above, provided by

TOTAL RESEARCH & TECHNOLOGY FELUY
Seneffe, Belgium

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number TO 1705-913.

The outgassing behavior of HIPS 8265 BLACK / TEC_PS_0004 (color: black) 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	2.1 x 10 ⁻⁸	2.3 x 10 ⁻⁷	-7.7
SVOC	1.2 x 10 ⁻⁸	1.7 x 10 ⁻⁷	-7.9
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	< 4.6 x 10 ⁻⁹	--

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.

TO 1705-913
Report No. first document

Stuttgart, October 18, 2017
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. Udo Gommel, Project manager Fraunhofer IPA

The validity of this certificate applies only to the mentioned product in this particular condition for a duration of 5 years. Further information: www.tested-device.com. Please visit www.ipa-csm.com.

DUPLICATE