



Cleanroom[®] Suitable Materials

Klüber Lubrication
Report No. KL 2601-1717
Cleanroom (atmospheric)

ISOFLEX TOPAS NCA 152
Outgassing Behavior VOC/SVOC:
ISO-ACC_m Class <-9.6/-7.9

FLOORING & COATING

Single product
Outgassing Behavior
VOC/SVOC

Qualification Certificate

We hereby certify that the material stated above, provided by

Klüber Lubrication
Munich, Germany

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number KL 2601-1717.

The outgassing behavior of ISOFLEX TOPAS NCA 152 (color: beige) at the stated temperature was investigated according to VDI 2083 Part 17 and ISO 16000-25. 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⁾ [g/m ² s]	ISO-ACC _m Class (x)
VOC	< 2.8 x 10 ⁻¹⁰	< -9.6
SVOC ²⁾	1.2 x 10 ⁻⁸	-7.9
Sum of VOC and SVOC	1.2 x 10 ⁻⁸	--
Refractories ³⁾	< 2.8 x 10 ⁻¹⁰	--
Siloxanes ⁴⁾	< 2.8 x 10 ⁻¹⁰	--

¹⁾ The emission rate is calculated using the detected mass based on the response of the standard, the analyzed unit and the sampling duration. ²⁾ according ISO 16000-25, SVOC is the sum of airborne and condensing SVOC. Condensing SVOC were collected by heating the emission chamber to 90 °C after removal of the sample. ³⁾ Refractories are compounds containing elements other than C, H and O (for example S, P, N, Si,...). ⁴⁾ Siloxanes and other Si-containing organic substances. Siloxanes also count as refractories.

This document only applies to the named product in its original state and is valid for a period of 5 years from the current date the 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.

The norms stated generally refer to the version valid at the time of the tests.

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on behalf of 
Dr.-Ing. Frank Bürger, head of business unit Testing and Certification