



valid until: May 20, 2031

Fraunhofer

TESTED[®] DEVICE

Ziehl-Abegg SE
ZAmid PAPA LGF40 blue
Report No. ZI 2603-1743

DUPLICATE

Statement of
Qualification

Single product
Outgassing Behavior
VOC/SVOC

Statement of Qualification · Single product

Customer
 Ziehl-Abegg SE
 Heinz-Ziehl-Strasse
 74653 Künzelsau
 Germany

Tested product

Category: Materials
 Subcategory: Plastics
 Product name: ZAmid PAPA LGF40 blue
 (manufacturing date: 3/2026; color: blue; article number: 00414179)

Emission measurements with purge-and-trap thermodesorption method and gas chromatography combined with mass spectrometry (TD-GC/MS)

Standards/guidelines: ISO 14644-8, -15
 The norms stated generally refer to the version valid at the time of the tests.

Test equipment: Measuring station: PerkinElmer Clarus 600, Clarus SQ8, ATD 650

Test procedure parameters:

- Retention range (VOC): C6 to C16
- Outgassing test temperature: 23 °C
- Duration of preconditioning: > 5 min
- Flow rate sampling gas: 100 ml/min
- Duration of sampling: 60 min
- Volume of the emission cell: 45 cm³

Test result / Classification

The outgassing behavior of ZAmid PAPA LGF40 blue at the stated temperature was investigated according to ISO 14644-15. Based on the outgassing rates determined for the specific units, the following material classification was made for the corresponding Contaminant Category:

Contaminant Category (x)	SER ¹⁾ 23 °C [g/(m ² * s)]	ISO-ACC _m Class (x)
VOC	3.3 x 10 ⁻⁹	-8.5
SVOC ²⁾	1.5 x 10 ⁻⁸	-7.8
Sum of VOC and SVOC	1.8 x 10 ⁻⁸	--
Refractories ³⁾	2.3 x 10 ⁻⁸	--
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 sample surface area or number of samples 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.

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

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Business unit Testing and Certification

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Nobelstrasse 12
 70569 Stuttgart
 Germany

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