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TESTED[®]
DEVICE

AKA LIGHTING GmbH
PE powdercoating PO-658-9010-001
Report No. AK 2507-1654

DUPLICATE

Statement of
Qualification

Single product
Outgassing Behavior
VOC/SVOC

Customer	AKA LIGHTING GmbH Siemensstrasse 6 71101 Schönaich Germany
Tested product	
Category:	Materials
Subcategory:	Coatings
Product name:	Polyester powdercoating PO-658-9010-001 (manufacturing date: 4/2025; color: RAL 9010; article number: PO-658-9010-001)

Emission chamber 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 - Sampling chamber:.....Markes International µCTE
Sample storage:	- Pre-conditioning: - Cleanroom Air Cleanliness Class (according to ISO 14644-1):ISO 1 - Airflow velocity:0.45 m/s - Airflow type:..... vertical laminar flow - Temperature:22 °C ± 0.5 °C - Relative humidity: 45 % ± 5 % - Purified air: VOC-filtered
Test procedure parameters:	- Retention range (VOC): C6 to C16 - Outgassing test temperatures: 23 °C and 90 °C

Test result / Classification

The outgassing behavior of Polyester powdercoating PO-658-9010-001 at the stated temperatures was investigated according to 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⁾ [g/m²s]	ISO-ACC _m Class (x)
VOC	6.6 x 10 ⁻⁹	-8.2
SVOC ²⁾	2.7 x 10 ⁻⁹	-8.6
Sum of VOC and SVOC	9.3 x 10 ⁻⁹	--
Refractories ³⁾	9.3 x 10 ⁻¹⁰	--
Siloxanes ⁴⁾	9.3 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.

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.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA	AK 2507-1654 Report No. first document	Stuttgart, February 6, 2026 Place, date of first document issued
Business unit Testing and Certification	-- Report No. current document	-- Place, current date
Nobelstrasse 12 70569 Stuttgart Germany	on behalf of  Dr.-Ing. Frank Bürger, head of business unit Testing and Certification	