



valid until: July 26, 2029

# Fraunhofer

## TESTED<sup>®</sup> DEVICE

Ernst & Engbring GmbH  
PTFE/PUR LAMINATE  
**Report No. ER 2406-1532**

### Single product Particle Emission

### Qualification Certificate

This is to certify that the product mentioned above, provided by

**Ernst & Engbring GmbH**  
Oer-Erkenschwick, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number ER 2406-1532.

The PTFE/PUR Laminate-Flat-Cable (color: white) was assessed in compliance with ISO 14644-14. When operated under the specified test conditions, it is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
$v_1 = 0.5 \text{ m/s}; a_1 = 1.0 \text{ m/s}^2$	1
$v_2 = 1.0 \text{ m/s}; a_2 = 2.0 \text{ m/s}^2$	1
$v_3 = 2.0 \text{ m/s}; a_3 = 4.0 \text{ m/s}^2$	1
<b>Overall result</b>	<b>1</b>

Please note: Transport damages, incorrect installation, aging behavior etc. can influence the test result.

ER 2406-1532  
Report No. first document

Stuttgart, July 26, 2024  
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. Frank Bürger, 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](http://www.tested-device.com). Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.