



Fraunhofer

TESTED[®] DEVICE

Ernst & Engbring GmbH
PTFE 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 Laminate-Flat-Cable (color: blue, gray) 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
Overall result	1

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.

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