



valid until: February 11, 2031

# Fraunhofer

## TESTED<sup>®</sup> DEVICE

Murrplastik Systemtechnik GmbH  
MPOD Energy Chain  
**Report No. MU 2601-1720**

### Single product Particle Emission in Cleanroom (atmospheric)

### Qualification Certificate

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

**Murrplastik Systemtechnik GmbH**  
Oppenweiler, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number MU 2601-1720.

The Cleanroom MPOD Energy Chain (color: white) was assessed in compliance with ISO 14644-14. When operated under the specified test conditions (room temperature:  $22\text{ °C} \pm 0.5\text{ °C}$ ; relative humidity:  $45\% \pm 5\%$ ), 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.

MU 2011-1190      Stuttgart, December 18, 2020  
Report No. first document      Place, date of first document issued

MU 2601-1720      Stuttgart, February 11, 2026  
Report No. current document      Place, current date

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

DUPLICATE

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](http://www.tested-device.com).

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