

## Fraunhofer

## TESTED<sup>®</sup> DEVICE

igus GmbH e-skin flat System **Report No. IG 2402-1498** 

Single product
Particle emission
in Dry-Cleanroom
Aging behavior

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.

## **Qualification Certificate**

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

igus GmbH Cologne, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number IG 2402-1498.

When operated under the specified test conditions (room temperature of 22 °C  $\pm$  1 °C; dew point: - 40 °C  $\pm$  2 °C), the cable guiding system e-skin flat System (color: white) is suitable for use in dry-cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

Aging behavior during continuous operation in Dry-Cleanroom, Test parameter(s)	Air Cleanlines Class
Test 1, new (after running-in period, 0 cycles)	4
Test 2, after 2 months (3.2 Mio. cycles)	4
Test 3, after 4 months (5.1 Mio. cycles)	4
Test 4, after 6 months (7.5 Mio. cycles)	4
Test 5, after 8 months (10.0 Mio. cycles)	4
Test 6, after 10 months (15.1 Mio. cycles)	4
Test 7, after 12 months (20.1 Mio. cycles)	4
Overall result	4

Test parameter: 0.5 m/s, 1.0 m/s²; 1.0 m/s, 2.0 m/s²; 2.0 m/s, 4.0 m/s² Please note: Transport damages, incorrect installation, aging behavior, corrosion etc. can influence the test result.

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Place, current date

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