

# DUDATE





# Fraunhofer TESTED® DEVICE STRUBL GmbH & Co. KG PURELL2420F | CRP\_2420\_EP Report No. ST 1411-734

Statement of Qualification

Particle Emission

## **Statement of Qualification**

### **Customer:**

STRUBL GmbH & Co. KG Kunststoffverpackungen Richtweg 52 90530 Wendelstein Germany

Test result/Classification: (in acc. with ISO 14644-1; VDI 2083-9.2)

Only the particle emission behavior of the packaging films has been taken into consideration. No information may be derived from the results concerning the occurrence of possible contact contamination between the packaging films and the product requiring packaging.

### **Component tested**

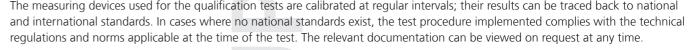
Category:	Materials
Subcategory:	Consumables
Product name:	Packaging film PURELL2420F CRP_2420_EP (manufacturing date: 13/9/2014; color: transparent; batch number: AU232363-1)

### Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:	Based on VDI 2083-9.1, without 24-hour running-in period; VDI 2083-9.2 The norm stated refers to the version that was applicable at the time of testing.
Test devices:	Optical particle counter: • LasAir II 110 with measuring ranges ≥ 0.1 µm, ≥ 0.2 µm, ≥ 0.3 µm, ≥ 0.5 µm, ≥ 1.0 µm and ≥ 5.0 µm
Test environment parameters:	<ul> <li>Cleanroom Air Cleanliness Class (according to ISO 14644-1): ISO 1</li> <li>Airflow velocity:</li></ul>
Test procedure parameters:	Test bench (according to ISO 9073-10):         • Position of tensioned sample:         Length between tensioning points I:         • Motion cycle:         - Linear compression s:         120 mm         - Torsion:         180°         • Cycle time t:         1 s         • Duration of stress applied to test piece:         100 min         • Distance between particle counting probe and test piece:

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**IPA** 



For further information about the test environment and parameters, please refer to the Fraunhofer IPA test report.

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Under the specified test conditions, the packaging film PURELL2420F| CRP\_2420\_EP is suitable at best for use in ISO Class 3 cleanrooms. This corresponds with ISO ACP<sub>c</sub> Class 3.

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national

### Stuttgart, February 24, 2015

Place, date of first document issued

Place, current date



This document only applies to the named product in an unchanged state and is valid from the date of issue for a period of 5 years. The document can be verified under www.tested-device.com