

## DUPLICATE





## Fraunhofer TESTED® DEVICE Purepack GmbH UHP/PE CR-bag without additives

Report No. PU 2405-1524

Statement of Qualification

Single product
Particle Emission

## **Statement of Qualification** • Single product

Customer	Purepack GmbH Im Gemmingstal 55 74074 Heilbronn Germany	Test result / Classification	When operated in a dry state using the given test parameters, the UHP/PE cleanroom bag, transparent, unprinted without additives is suitable for use in cleanrooms up to the following Air Cleanliness Class according to ISO 14644-1:	
			Test parameter(s)	Air Cleanlines Class
Component tested			Linear compression = 120 mm Torsion = 180 °	
Category:	Materials		Cycle time t = 1 s	3
Subcategory:	Consumables		Overall result	
Product name:	UHP/PE cleanroom bag, transparent, unprinted without additives (manufacturing date: 4/22/2024; color: transparent; charge number:	This corresponds with ISO-ACP <sub>c</sub> Class 3 according to VDI 2083 Part 9.2.		
	220424; batch number: 220424)		Please note: Transport damages, incom can influence the test result.	ect installation, aging behavior etc.

Random sampling of particle emission	s	(airborn	e)

Standards/Guidelines:	
Test devices:	

Test environment parameters:

Test procedure parameters:

ISO 14644-1, -14; VDI 2083 Part 9.2, Part 9.1 (without 24-hour running-in period) The norms stated generally refer to the version valid at the time of the tests.	
Optical particle counter: LasAir II 110 with measuring ranges $\geq$ 0.1 µm, $\geq$ 0.2 µm, $\geq$ 0.3 µm, $\geq$ 0.5 µm, $\geq$ 1.0 µm and $\geq$ 5.0 µm	
<ul> <li>Cleanroom Air Cleanliness Class (according to ISO 14644-1):ISO 1</li> <li>Airflow velocity:0.45 m/s</li> <li>Airflow pattern:vertical laminar flow</li> <li>Temperature:</li></ul>	
Test bench according to ISO 9073-10:	
<ul> <li>Sample clamping position:flat</li> <li>Length between clamping points:</li></ul>	
- Linear compression s:	

• Sampling chamber:... ..none • Duration of stress applied to test piece: . 100 min



The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

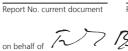
Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

PU 2405-1524 Report No. first document

Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany



on behalf of Dr.-Ing. Frank Bürger, Project Mar

	This document only
	applies to the named
	product in its original state
Stuttgart, August 14, 2024	and is valid for a period of
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