





Fraunhofer TESTED® DENSO WAVE Inc. PC (VG1950) Report No. DE 2006-1161

Statement of Qualification

Single product Hydrogen Peroxide Absorption/Desorption

Statement of Qualification • Single product

Customer

DENSO WAVE Inc. 1, Yoshiike, Kusaki, Agui-cho, Chita-gun 470-2297 Aichi Japan

Test result/Classification

Øk-v 2.2

The k-value represents the required decay time to reduce the hydrogen peroxide vapor concentration measured at the beginning of the aeration phase to one tenth of the original concentration. The material classification is based on three separate measurements. The blank value of the test setup is subtracted from each measurement value. The medium k-value is transferred to the following classification:

• ≤ 5 min:....

- > 5-≤ 15 mi • > 15-≤ 60 m
- > 60 min:...
- Not determine

k-values.

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

and Micromanufacturing

Nobelstrasse 12

70569 Stuttgart

Germany

DE 1409-725 Report No. first document

Department of Ultraclean Technology DE 2006-1161 Report No. current document

> on behalf of R. R. Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA

Category:			

Subcategory

Component tested

Product name:

Materials Plastics

PC (VG1950)	
(manufacturing date: 4/2020; color: black; serial number: PLATE_2020-1	3)

Hydrogen peroxide absorption/desorption

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Air-conditioned laboratory environment:

Test procedure parameters:

VDI 2083 Part 20 The norms stated generally refer to the version valid at the time	of the tests.
Temperature:	2°C±0.5°C
 Emission test cell volume: Exposed surface area: H₂O₂ vapor concentration: Exposure duration: 	
Air exchange rate during aeration:	50 min ⁻¹





The hydrogen peroxide absorption/desorption of PC (VG1950) was investigated with the stated test parameters. Using the procedure laid down in VDI 2083 Part 20, the following test result was obtained:

alue n]	Standard deviation [min]	Classification
2	0.2	non-absorptive

	non-absorptive
iin:	fast
min:	medium
	slow
inable:	catalytic activity

The k-value can only be used to make a comparative material assessment. Provided the maximum hydrogen peroxide vapor concentration during material exposure is within the defined limit, it does not affect the calculated

Stuttgart, July 15, 2015

Place, date of first document issued

Stuttgart, November 4, 2020 Place, current date

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.