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Brecon Group
Formica High Pressure Laminate
Report No. BR 1804-1024

Statement of Qualification

Chemical Resistance





Statement of Qualification

Customer

Brecon Cleanroom Systems B.V. Droogdokkeneiland 7 5026 SP Tilburg The Netherlands

Materials

Material Composites

Formica High Pressure Laminate

batch number: 1285727)

Component tested

Category:

Subcategory:

Product name:

Chemical resistance test

Standards/Guidelines:

Testing equipment:

Test environment parameters:

Test procedure parameters:

......Peracetic acid 15 % Hydrochloric acid 5 % Isopropanol 100 %Sodium hydroxide 5 % ...Sodium hypochlorite 5 %

...1h, 3h, 6h, 24h

(manufacturing date: 4/2018; article number: BM-W-HRW-101;

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• Incubation time: ..

Test result/Classification

The chemical resistance of Formica High Pressure Laminate was classified according to ISO 4628-1 and VDI 2083 Part 17 with the following result:

Chemical resistance	1h	3 h	6 h	24h
Formalin 37 %	0	0	0	0
Ammoniac 25 %	0	0	0	0
Hydrogen peroxide 30 %	0	0	0	0
Sulfuric acid 5 %	0	0	0	0
Phosphoric acid 30 %	0	0	0	0
Peracetic acid 15 %	1	4	5	5
Hydrochloric acid 5 %	0	0	0	0
Isopropanol 100 %	1	1	1	1
Sodium hydroxide 5 %	0	0	0	0
Sodium hypochlorite 5 %	0	0	0	0

The classification is based on a worst-case consideration. In the process, damage was assessed according to the classification system used in ISO 4628-1 and VDI 2083 Part 17:

0 =excellent 3 = weak 1 = very good 4 = very weak 2 =good 5 =none

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

Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany BR 1804-1024

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