

Laboratory for Fire Safety

Summary of the reaction to fire performance:

AKOpanel PETpanel

On behalf of AKOpanel BV a study on the burning behaviour ('reaction to fire') on a range of AKOpanel PETpanel has been carried out. The tests were performed in the Peutz Laboratory for Fire Safety in accordance with the European test standard EN-ISO 11925-2:2010 and EN 13823:2010+A1:2014.

This summary provides the reaction to fire performance and a brief description of the tested product. For a complete description of the product, reference is made to the reports described in the footnote.

AKOpanel PETpanel

PETpanel is the name of a range of decorative wall and ceiling finishes with an acoustic function. It is available in different colours. PETpanel with a thickness of 9 mm and an average surface weight of 1.9 kg/m² was investigated. The material is composed of 60% recycled PET fibres and 40% new PET fibres. The product is used as a wall and ceiling covering with an acoustic function; in the form of a panel for hanging onto internal walls and/or ceilings by means of mechanical fixing. The material is also used for office furnishing and in partitions.



<p>This summary of the reaction to fire classification consists of 2 pages. The reports that form the basis for this summary are available for inspection at the client and are registered as test report Y 2138-2-RA-001, test report Y 2138-3-RA-001, and classification report Y 2138-4-RA-001, all dated 26 June 2019.</p>	<p>Reference JM/NvD//Y 2138-6E-RA-001 10 July 2019</p>	<p>Page 1/2</p>	<p>Initials JM</p>
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Reaction to fire testing

In order to determine the reaction to fire performance of the PETpanel, two studies were carried out. Firstly, an SBI study (described in EN 13823) was carried out and secondly, an ignitability or Small Flame study was carried out (EN-ISO 11925-2). The samples were tested in combination with a non-combustible substrate. These investigations were carried out in 2019 in the Peutz Fire Safety Laboratory. During these investigations, the influence of the colour on the fire behaviour of the material was also investigated.

Based on the results of the ignitability test (Small flame test) and the values determined in the SBI test for fire growth and total heat release, the reaction to fire class was determined. The classification of the smoke production was determined on the basis of the smoke development and total smoke production. The occurrence of flaming droplets is determined on the basis of visual observations during the SBI test and flammability test.

Classification of the reaction to fire performance

Based on the results of the tests carried out in accordance with EN 13823 and EN-ISO 11925-2, a classification in accordance with EN 13501-1 has been drawn up and the AKOpanel PETpanel has been classified as follows:

Classification Reaction to Fire in accordance with EN 13501-1:

B-s1, d0

The classification is valid for the following product parameters:

- Nominal thickness 9 mm (difference in thickness may lead to a different classification).
- Weight per unit area approx. 1.9 kg/m².

The classification is valid for the following end-use applications:

- Substrate non-combustible (Fire class A2-S1,d0 or better) with a thickness of at least 9 mm and a density of at least 652,5 kg/m³.
- Mechanical fixing.
- Edges protected.
- No seams of joints.
- Air cavity not allowed.
- All colours.

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Reference
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