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Sample ID: SIMOPOR SP 3 mm PVC FOAM

	TEST	METHOD	SPECIMEN	RESULT
*	Fire behaviour of building materials and elements Part 1: Classification of building materials requirements and testing	DIN 4102:2018	SIMOPOR SP 3 mm PVC FOAM	B1



Seal

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Environment

The requirements and standards apply to equipment intended for use in,

X	Residential (domestic) environment
X	Commercial and light-industrial environment
X	Industrial environment
X	Medical environment

DIN 4102 Fire Behaviour of Building Materials and Elements Part 1: Classification of Building Materials Requirements and Testing

Scope

The standard applies to the classification of the fire behavior of building materials to assess the risk as a single building material and in combination with other building materials.

Building Material Classes

The building materials are classified according to their fire behavior into the building material classes according to Table 1:

Building Material Classes	Building Inspectorate Designation
A A1 A2	Non-combustible building materials
B B1 B2 B3	Flammable building materials Flame retardant building materials Normally flammable building materials Easily flammable building materials

Building material class B1

Procedure:

- Conditioning: Specimens should be kept for 12 hours at 20°C and 65% humidity prior to testing. Conditioning serves to have the same test requirements so that results can be compared.
- Ignitability test: The ambient temperature of the test room is to be about 20 °C. Mount the specimen in the holder/frame and suspend the entire frame vertically in the cabinet. Position the burner vertically to set the flame height to 20 mm, then tilt the burner to a 45° angle and place it in the cabinet.
- For bottom edge ignition testing, position the burner so that flame is applied to the bottom edge of the specimen at the centre of its width and thickness. For specimens with a thickness greater than 3 mm, apply the flame to the lower surface of the specimen at the least favourable point in terms of fire behaviour. The front edge of the burner's stabilizer is to be 16 mm away from the specimen's bottom edge, measured along the nozzle axis.
- Where surface ignition testing is necessary, burner placement and flame impingement shall be. The flame shall be applied to the centre of the specimen's width.
- Apply the flame for 15 seconds and then pull the burner back, taking care not to create any draught. Measure the time it takes for the flame tip to reach the gauge mark.
- Multi-layered materials are to be tested and as specified in subclause, except that the flame is to be applied to the least favourable point on the specimen's front edge.
- If materials are to be used in composite structures together with other materials, these shall be tested together.

Requirements For Classification

Building materials, with the exception of floor coverings, meet the requirements for classification in building material class B1 if they pass the fire pit test and meet the requirements for building material class B2.

RESULTS

		Results of the test (part 1)
Row-no.	Foil-type:	Measurements test specimens
		SIMOPOR SP 3 mm PVC FOAM
1	No. of test specimen arrangement according to DIN 4102, part 15, table 1	-
2	Max. flame height above bottom edge cm Time ¹⁾ min : s	12 cm 10 s
3	Melt through / burn through Time ¹⁾ min : s	-
4	Observations on the backside of the specimens Flames/smouldering Time ¹⁾ min : s	-
5	Discolouration Time ¹⁾ min : s	-
6	Burning droplets Start ¹⁾	-
7	Extent sporadic burning droplets continually falling particles min : s	-
8	Falling particles which burns Start ¹⁾ min : s	-
9	sporadic falling parts	-
10	continually falling particles	-
11	Duration of the burning on the screen bottom (max.) min : s	-
12	Interference of the burner flame by dripping /falling particles Time ¹⁾ min : s	-
13	Early termination of the test End of burning at the specimen ¹⁾ min : s	-
14	Time of early cancellation of the test ¹⁾ min : s	-
	Continuous burning after termination of the test	-
15	Duration min : s	-
16	Number of specimens	-
17	Front side of the specimen	--
18	Back side of the specimen	--
19	Flame length cm	8 cm
20	Smouldering after termination of the test Duration min : s	-
21	Number of specimens	-
	Location	-

		Results of the test (part 2)
Row-no.	Foil-type:	Measurements test specimens
		SIMOPOR SP 3 mm PVC FOAM
22	Lower half of the specimens	-
23	Upper half of the specimens	-
24	Front side of the specimen	-
	Backside of the specimen	-
	<u>Smoke development</u>	-
	< 400 % x min	-
	> 400 % x min	-
	Diagram in appendix	-
	<u>Residual lengths</u>	-
	Single values cm	-
	Average values cm	-
	Photo of the specimen on page	-
	<u>Smoke temperature</u>	128 °C
	Maximum value of the averaged values °C	
	Time ¹⁾ min :	-
	s	
	Diagram in appendix Nr.	-



SAMPLE IMAGE



***** End of Report*****