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Sample ID : Art. 62/300/0001

	TEST / INSPECTION	DIRECTIVE	METHOD	RESULT
*	1- Fire Behaviour of Building Materials and Elements Part 1: Classification of Building Materials Requirements and Testing	The General Product Safety Directive (GPSD) (2001/95/EC)	DIN 4102-1	B1

NOTE: This test/inspection result replaces the conformity assessment, can be presented to official institutions, and used in products and brochures.



Seal

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DIN 4102-1: 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:

Table 1: Building Material Classes

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

Building Material Class B1

Procedure:

- 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.



- 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.

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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.

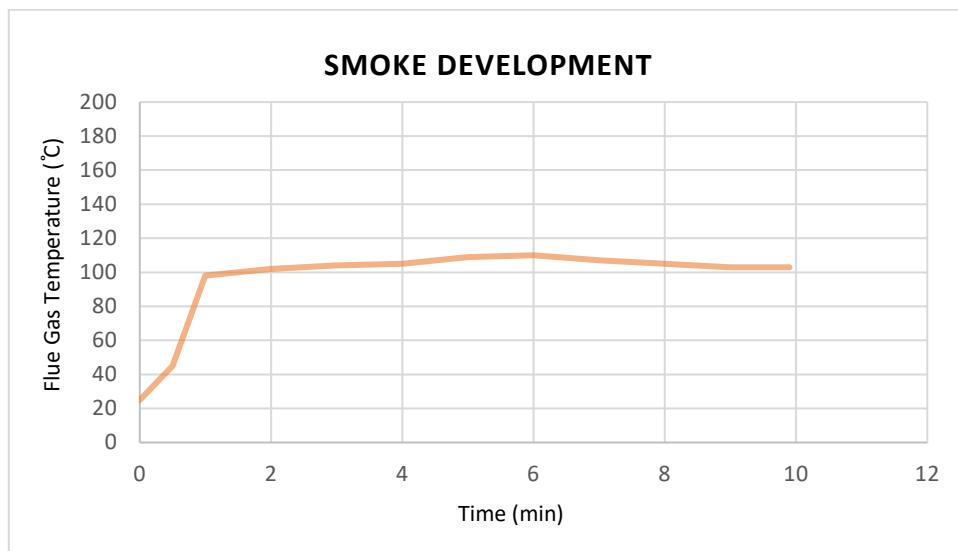
Test Result

Row No	Foil-type	Art. 62/300/0001	Unit
		Measured Values	
1	Number of test specimen arrangement according to DIN 4102, Part 15, Table1	4	
2	Max. Flame height above bottom edge Time	7	cm
3		0:19	min:s
4	Melt through / burn through	0:05	min:s
5	Observation on the backside of the specimen Flames / smouldering	--	min:s
6	Discolouration	--	
7	Falling of burning droplets	--	min:s
8	Sporadic burning droplets	--	
9	Continually falling particles	--	
10	Falling particles which burns	--	min:s
11	Sporadic falling parts	--	
12	Continually falling particles	--	
13	Duration of the burning on the screen bottom	--	min:s
14	Interference of the burner flame by dripping / falling particles	--	min:s
15	Early termination of the test End of burning at the specimen	--	min:s
16	Time of early cancellation of the test	--	
17	Continuous burning after termination of the test	--	min:s
18	Number of specimens	--	
19	Front side of the specimen	--	cm
20	Back side of the specimen	--	
21	Flame lenght	--	
22	Smouldering after termination of the test	--	min:s
23	Number of specimens Location;	--	
24	Lower half of the specimens	--	
25	Upper half of the specimens	--	
26	Front side of the specimen	--	
27	Backside of the specimen	--	



28	Smoke development ≤400% min	--	% min
29	>400% min		
30	Diagram in appendix		
31	Residual lengths	40 42 44 47	cm
32	Average values	43.7	
33	Photo of the specimen on page	--	
34	Smoke temperature	115 111 104 110	≤200 °C for B1 Class
35	Maximum value of the averaged values	110	
36	Diagram in appendix		

Smoke Development Chart



Sample Image



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

