

TEST REPORT

Order no: 29/04/2024_Krishan Kumar Signature: SL/Z-411/ DIN 53438-3/0358a/2024 Police, 14.05.2024

Test method:

DIN 53438-3:1984-06 Testing of combustible materials; response to ignition by a small flame; surface ignition

Content of request: Test according to DIN 53438-3

Sponsor: Desiccant Rotors International Pvt. Ltd.
Plot No. 100-101, Udyog Vihar, Phase IV, Gurgaon, Haryana
122015 Gurgaon, INDIA

Material: ECODRY DESICCANT ROTOR
EcoDry Media

Composition: Synthesised Inorganic Media
Specimen construction: honeycomb
Field of application: Air Drying

Manufacturer/supplier: Desiccant Rotors International Pvt. Ltd.
Plot No. 100-101, Udyog Vihar, Phase IV, Gurgaon, Haryana
122015 Gurgaon, INDIA

Assessment: The material fulfils the requirements of the class F1/40 mm
acc. to DIN 53438-3:1984-06.

Validity of test report: 14.05.2029

The reprint and the copying: only with the agreement of Desiccant Rotors International Pvt. Ltd.

Without the written consent of the Sychta Laboratory the report can be copied only in one piece.

Report applies only to the sample tested and is not necessarily indicative of the qualities of apparently identical or similar products.

Content of test report: three pages with signature and numbers.

1. Test results DIN 53438-3 - surface ignition

Exposure time of pilot burner flame - 15 s
Time from start of test.

Name of measured quantity	Unit	Specimen no./Test direction										Average
		length direction					cross direction					
		1	2	3	4	5	6	7	8	9	10	
Minimum specimen thicknesses	mm	40	40	40	40	40	40	40	40	40	40	-
Maximum specimen thicknesses	mm	40	40	40	40	40	40	40	40	40	40	-
Ignition time	s	-	-	-	-	-	-	-	-	-	-	-
Extinction time	s	-	-	-	-	-	-	-	-	-	-	-
Burning time	s	-	-	-	-	-	-	-	-	-	-	-
Max. flame height	cm	-	-	-	-	-	-	-	-	-	-	-
Flame hight 150 mm within 20 s	yes/no	no	no	no	no	no	no	no	no	no	no	no
Afterglow time	s	-	-	-	-	-	-	-	-	-	-	-
Flaming particles or droplets	yes/no	no	no	no	no	no	no	no	no	no	no	no
Ignition of paper	yes/no	no	no	no	no	no	no	no	no	no	no	no
Smoke development (visual impression)	-	no smoke production										

Remarks: samples were tested on the standard substrate plasterboard with thickness $12,5 \pm 0,5$ mm and density 700 ± 100 kg/m³.

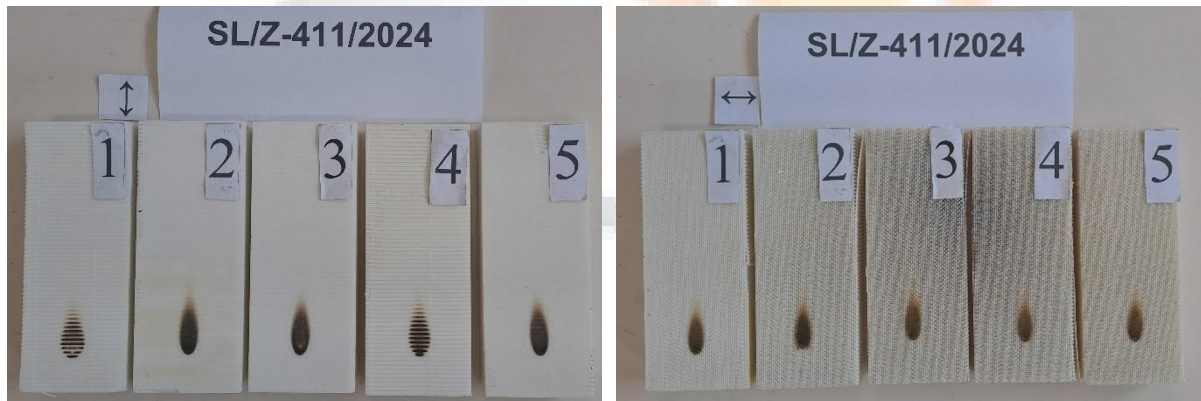


Fig. 1. Appearance of the samples after the tests

2. Assessment and evaluation

Name of measured quantity	Unit	Specimen no./Test direction									
		length direction					cross direction				
		1	2	3	4	5	6	7	8	9	10
Extinction time	s	-	-	-	-	-	-	-	-	-	-
Max. flame height	cm	-	-	-	-	-	-	-	-	-	-
Flame height 150 mm within 20 s	yes/no	no	no	no	no	no	no	no	no	no	no
Evaluation	-	F1	F1	F1	F1	F1	F1	F1	F1	F1	F1

The determined test results show that the material fulfils the requirements of the class F1/40 mm according to clause 5 of DIN 53438-3:1984-06.

3. Remaining required information

Date of receipt of samples: 09.05.2024

Sampling: Sponsor took and delivered samples.

Sample description: Beige filters consisting of wavy inorganic sheets (0,3 mm thick of each) arranged in a honeycomb pattern, total thickness 40 mm, weight per unit area 8,6-9,6 kg/m². Sponsor delivered 10 samples (5 lengthwise and 5 crosswise) with dimensions of 230x90 mm.

Conditioning of specimens: testing after storing more than 24 h under climatic - temperature of 23±2°C, and relative humidity of 50±5 % (DIN 50014-23/50-2).

Declarations:

1. The test results relate to the behaviour of the test specimens under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the products in use.
2. The information provided on the first page of the report concerning the scope of research and identification of the tested object/objects were provided by the Sponsor.

Operator:

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Date and place of test - 14.05.2024, Police

