

TEST REPORT

Test Report Issued To:

SENSES AKUSTIK

PLOT NO. 102, NEW GIDC, GUNDLAV, VALSAD ,
VALSAD, GUJARAT - 396035,
INDIA

Test Report No: D220110026/D220110026-11

Date of Issue: 20-Jan-2022



Sample Booking/Receipt Date: 10-Jan-2022

Date of Start of Testing: 17-Jan-2022

Date of Completion of Test: 20-Jan-2022

Customer Relationship Number

67414

Sample Description :

Acoustic Panel 100% PET (60% recycled)



Customer Reference No :

Kind Attention : ANJU SHARMA

E-Mail: info@sensesakustik.com

Contact No: 9999425991

Sample Condition : Good

Sample Quantity (Approx) : 1 - Nos

Sample Size (Approx) : . - mm

SAMPLE NOT DRAWN BY OUR LABORATORY. THE RESULTS RELATE ONLY TO THE ITEMS TESTED

ULR-TC631422000001207F

Report Issued by

Authenticity of report can be verified by mail at verification@spectrolab.in

This is a Digitally Signed Report and hence doesn't require Physical Signature.

Spectro Analytical Labs Pvt. Ltd. S-1, GNEPIP, Surajpur Industrial Area, Phase-V, Kasna, Greater Noida-201308 (India)

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TEST REPORT

Page 2 of 6

Report No. D220110026/D220110026-11

Discipline: Mechanical
Group: Building Materials

TEST REPORT FOR DETERMINING THE FLAME SPREAD AND SMOKE DEVELOPED INDEX

Test Sponsor:
SENSES AKUSTIK

Product Name:
Acoustic Panel 100% PET (60% recycled) (Name given by test sponsor)

Test Standards:
ASTM E84-2021; Standard Test Method for Surface Burning Characteristics of Building Materials.

Testing Laboratory:
Spectro Analytical Labs Private Limited
S-1 GNEPIP, Surajpur Industrial Area
Kasna, Greater Noida, Phase – V
Gautam Budha Nagar (U.P.)
Pin Code: 201308
Ph: 0120-2341251/52

Specimen Verification:

Length : 2440 mm
Width : 610 mm
Thickness : 12 mm

Sample Preparation: The sample was 12 mm in thickness and 610 mm in width and 2440 mm in length.
A numbers of samples were used to spread over the tunnel to form the requisite specimen length.
During testing the sample was self-supporting.


Analyst Signature



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Authorised Signatory

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TEST REPORT

Page 3 of 6

Report No. D220110026/D220110026-11

Results and Discussion

Flame Spread Result

Calculated Flame Spread (CFS) 11.02
Flame Spread Index 11

Smoke Developed Result

Calculated Smoke Developed 288.02
Smoke Developed Index 300

Result: The tested specimen qualified for Class 1 as per IBC.

Classification Requirement as per IBC.

| | Flame Spread Index | Smoke Development |
|--------------|--------------------|-------------------|
| Class 1 or A | 0 - 25 | 450 Maximum |
| Class 2 or B | 26 - 75 | 450 Maximum |
| Class 3 or C | 76 - 200 | 450 Maximum |

Correction Factor

CORRECTION FACTOR FOR CALCULATING FLAME SPREAD INDEX

- If this total area (A_T) is less than or equal to 97.5 ft² then
The flame spread index shall be $FSI = 0.515 * A_T$.
- If the total area (A_T) is greater than 97.5 ft² then
The flame spread index shall be $FSI = 4900 / (195 - A_T)$.
Here A_T represents Total Area i.e. $A_T = A_1 + A_2$
 A_1 = Area Under the curve where first peak is observed.
 A_2 = Area just above the curve in the line of First peak point.

CORRECTION FACTOR FOR CALCULATING SMOKE DEVELOPED INDEX

Smoke Developed (SD) is determined by dividing the total area under the obscuration curve by that of cement board and multiplying by 100. SD is then rounded to the nearest multiple of 5 if less than 200. SD values over 200 are rounded to the nearest multiple of 50.

Smoke Developed Index = $\frac{\text{Area under the Obscuration Curve}}{\text{Area under the Red Oak Curve}} \times 100$

Mohit
Analyst Signature



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TEST REPORT

Page 4 of 6
Report No. D220110026/D220110026-11

Annexure A

Flame Spread Data

| Time(minutes) | Distance (Feet) |
|---------------|-----------------|
| 1 | 1.4 |
| 2 | 1.9 |
| 3 | 2.1 |
| 4 | 2.2 |
| 5 | 2.3 |
| 6 | 2.3 |
| 7 | 2.3 |
| 8 | 2.3 |
| 9 | 2.3 |
| 10 | 2.3 |

Flame Spread data

| | |
|---|---------------|
| Calculated Flame Spread (CFS) | 11.02 |
| Flame Spread Index | 11 |
| Maximum Flame Spread (Ft) | 2.3 ft. |
| Area under the Flame Spread Curve (Ft. Min) | 21.4 ft. min. |

Smoke Data

| | |
|--------------------------------------|--------|
| Calculated Smoke Developed | 288.02 |
| Smoke Developed Index | 300 |
| Area under the Smoke Curve (Ft. Min) | 212.76 |
| Area under Red Oak Curve (Ft. Min) | 73.87 |

Mohit
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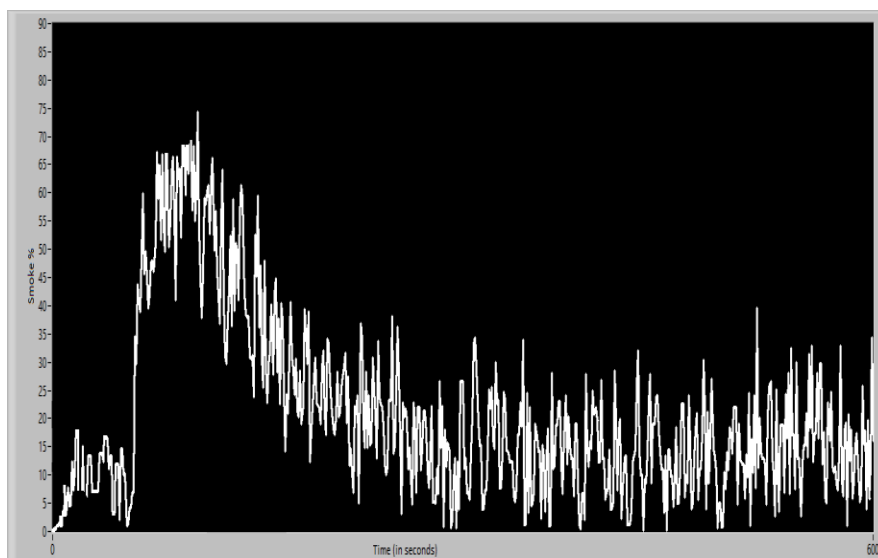
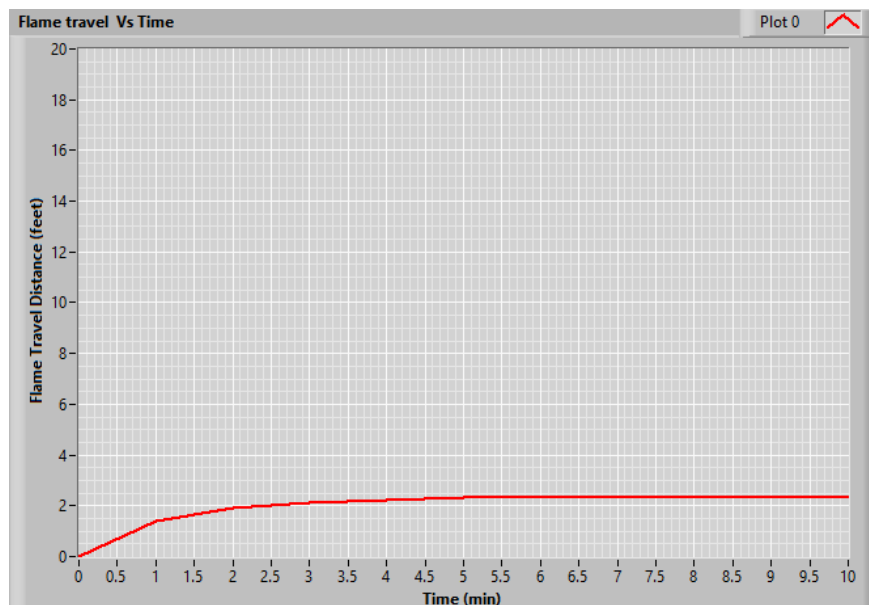
TEST REPORT

Page 5 of 6

Report No. D220110026/D220110026-11

Annexure B

GRAPHS



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Page 6 of 6
Report No. D220110026/D220110026-11

Photographs



Before Test



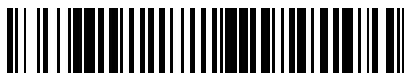
During Test



After Test

-- End of Test Report --

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