

TEST REPORT

Test Report Issued To:

CREST COMPOSITES & PLASTICS PVT. LTD.

SURVEY NO.609, VILLAGE : SHETRA, TAL. & DIST.
KHEDA, GUJARAT - 387560, INDIA, KHEDA, GUJARAT,
INDIA,

Test Report No: **M191224010/M191224010-1**

Date of Issue: **31-Dec-2019**



Sample Booking/Receipt Date: **24-Dec-2019**

Date of Start of Testing: **30-Dec-2019**

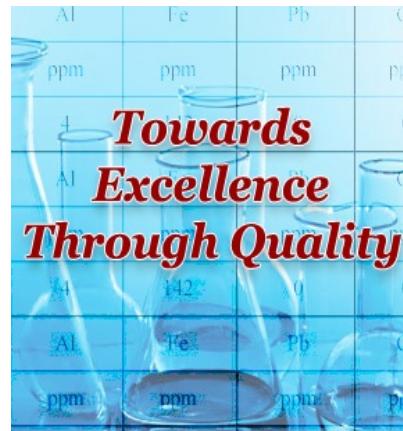
Date of Completion of Test: **30-Dec-2019**

Customer Relationship Number

M29687

Sample Description :

CPOL-7053 (600 MM X 1000 MM)



Customer Reference No :

LETTER DT. 18/12/2019

Kind Attention : MR. MEHBOOB YAQOOB

E-Mail: tech.services@crestcomposites.com

Contact No: **9909925166**

Sample Condition : **GOOD CONDITION**

Sample Quantity (Approx) : -

Sample Size (Approx) : -

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

ULR-TC631419000067044F

Report Issued by

Authencity 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 Limited S-1, GNEPIP, Surajpur Industrial Area,Phase-V, Kasna, Greater Noida-201308 (India)

Phone : +91-120-2341250,2341251 || **URL :** www.spectro.in || **Email:** care@spectro.in

BIS & DDA Approved, ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory

Please refer to our Website <http://www.spectro.in/spectro-policies.html> for Terms & Condition

**TEST REPORT FOR DETERMINING THE FLAME SPREAD
AND SMOKE DEVELOPED INDEX.****Test Sponsor:****Crest Composites & Plastics Pvt. Ltd.****Product Name:****CPOL-7053 (Name Declared by test sponsor)****Test Standards:**

ASTM E84-2018; Standard Test Method for Surface Burning Characteristics of Building Materials.

Testing Laboratory:**Spectro Analytical Labs 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 : 1000 mm

Width : 600 mm

Sample Preparation: The sample was 600 mm in width and 1000 mm in length. Approx. 8 numbers of samples were used to spread over the tunnel to form the requisite specimen length. Prior to the testing, the sample was conditioned to constant weight at a temperature of $73 \pm 5^{\circ}\text{F}$ ($23 \pm 3^{\circ}\text{C}$) and a relative humidity of $50 \pm 5\%$. During testing the sample was self-supporting.

Ambient Temperature

At the time of Commencement of test the Average ambient Temperature was 10°C.

Analyst Signature



Testing(TC-6314)

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Results and Discussion

Flame Spread Result

Calculated Flame Spread (CFS)	0
Flame Spread Index	0

Smoke Developed Result

Calculated Smoke Developed	436.9
Smoke Developed Index	450

Result: Class 1

Note: For Further details and observations refer to Annexure A and B

Classification Requirement

	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 ft·min then
The flame spread index shall be $FSI = 0.515 * A_T$.
- If the total area (A_T) is greater than 97.5 ft·min 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 = Area under the Obscuration Curve $\times 100$
Area under the Red Oak Curve



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Annexure A**Flame Spread Data**

Time(minutes)	Distance (Feet)
1	Burner Flame
2	Burner Flame
3	Burner Flame
4	Burner Flame
5	Burner Flame
6	Burner Flame
7	Burner Flame
8	Burner Flame
9	Burner Flame
10	Burner Flame

Flame Spread data

Calculated Flame Spread (CFS)	0
Flame Spread Index	0
Time to Ignition (sec)	-
Maximum Flame Spread (Ft)	0 ft.
Area under the Flame Spread Curve (Ft. Min)	0 ft. min.

Smoke Data

Calculated Smoke Developed	436.9
Smoke Developed Index	450
Area under the Smoke Curve (Ft. Min)	322.77
Area under Red Oak Curve (Ft. Min)	73.87



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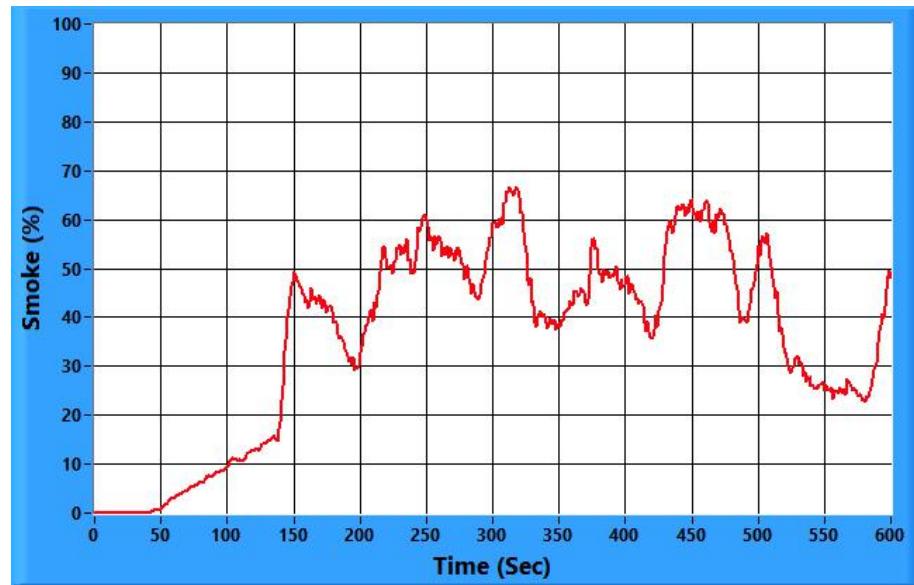
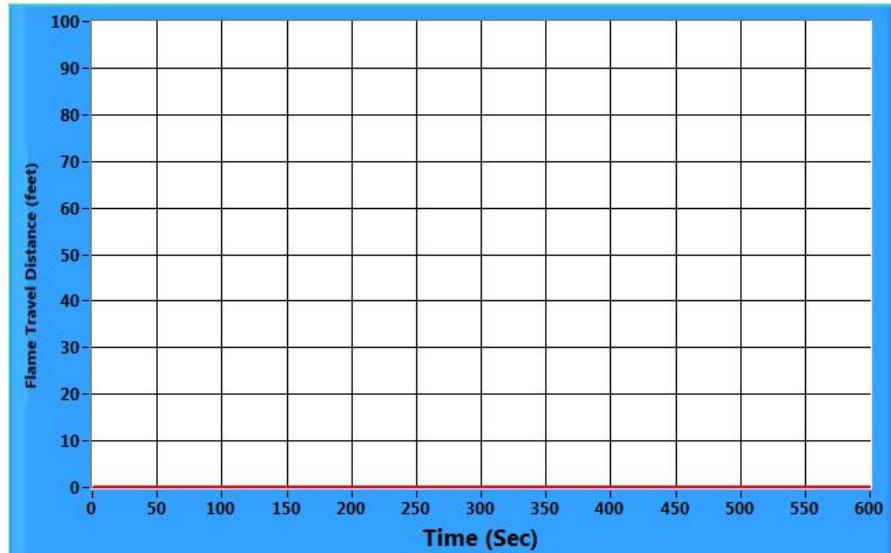


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Annexure B**GRAPHS**

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Photographs



Before Test



During Test



After Test

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-- End of Test Report --

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