December 05, 2022

Mr. Russel McNiece
Coat Zone Company
21011 Hegar Rd
Hockley, TX, 77447
Us

Our Reference: NEW/4790592456

Subject: Report Of Surface Burning Characteristics Tests On Samples As Submitted By Coat Zone Company

Dear Mr. McNiece

This is a Report summarizing the results of a test conducted under a preliminary investigation identified as Assignment No. 4790592456.

GENERAL:

Preliminary investigations are initiated to obtain information with respect to a product or products prior to submittal to UL LLC (UL) for Investigation, Classification and Follow-Up Service. This Report does not constitute evidence of such a submittal to UL. The results relate only to items tested.

METHOD:

Each test was conducted in accordance with Standard ANSI/UL723, Eleventh Edition, dated April 19, 2018, "Test for Surface Burning Characteristics of Building Materials", (ASTM E84).

The test determines the Surface Burning Characteristics of the material, specifically the flame spread and smoke developed indices when exposed to fire.

The maximum distance the flame travels along the length of the sample from the end of the igniting flame is determined by observation. The Flame Spread Index of the material is derived by plotting the progression of the flame front on a time-distance basis, ignoring any flame front recession, and using the equations described below:

A. $CFS = 0.515\ A_T$ when A_T is less than or equal to 97.5 minute-foot.

B. $CFS = 4900/(195-A_T)$ when A_T is greater than 97.5 minute-foot.

Where A_T = total area under the time distance curve expressed in minute-foot.

The Smoke Developed Index (SDI) is determined by rounding the Calculated Smoke Developed (CSD) as described in UL 723. The CSD is determined by the output of photoelectric equipment operating across the furnace flue pipe. A curve is developed by plotting the values of light absorption (decrease in cell output) against time. The CSD is derived by expressing the net area under the curve for the material tested as a percentage of the area under the curve for untreated red oak.

The CSD is expressed as:

$CSD = (A_m/A_{ro}) \times 100$

Where:

CSD = Calculated Smoke Developed
A_m = The area under the curve for the test material.
A_{ro} = The area under the curve for untreated red oak.

SAMPLES:

The samples utilized in this investigation were neither prepared nor selected by a Laboratories' representative such that no verification of composition can be provided.

Sample Description

Test No.	System
1	Coil Safe Product

Due to the rigidity of the test samples, supplementary means of support was not required.

RESULTS:

The results are tabulated below are considered applicable only to the specific samples tested.

Data sheets and graphical plots of flame travel versus time and smoke developed versus time are also enclosed.

Table 1: Test Summary

Test No.	Test Code	Sample Description	CFS Calculated Flame Spread	FSI Flame Spread Index	CSD Calculated Smoke Developed	SDI Smoke Developed Index
1	11182212	Coil Safe Product	0	0	0.0	0

The Classification Marking of UL on the product is the only method provided by UL to identify products which have been produced under its Classification and Follow-Up Service. No use of a Classification Marking has been authorized as a result of this investigation.

Since the anticipated work has been completed, we have instructed our Accounting Department to terminate the investigation and invoice you for the charges incurred to date.

Should you have any questions, please contact the undersigned.

Report By:

Theodore Ward

Theodore Ward
Engineer Project Associate
Built Environment

Project:	4790592456	File:	NEW	TestCode:	11182212
Tested by:	Abran Garcia	Engineer:	Abran Garcia	Date:	2022-11-18

TEST METHOD: The test was conducted in accordance with UL 723, Eleventh Edition (2018/04/19).

Client Name:	Coat Zone Company				
Test Duration	10 minutes	Test No.:	1	Hot Test:	No
Mounting:	RCB	Test Type:	CITS	Burn-Out Required:	No

Test Sample: Coil Safe Product

FLAME SPREAD RESULTS

Flame Spread Data

Distance (Feet)		**Time (Sec)**

Calculated Flame Spread (CFS): 0.00
Flame Spread Index (FSI): 0

Time to Ignition (sec): None
Maximum Flame Spread (ft): 0.0
Area Under the Flame Spread Curve (ft.-min): 0.0

SMOKE RESULTS

Calculated Smoke Developed (CSD): 0.0
Smoke Developed Index (SDI): 0

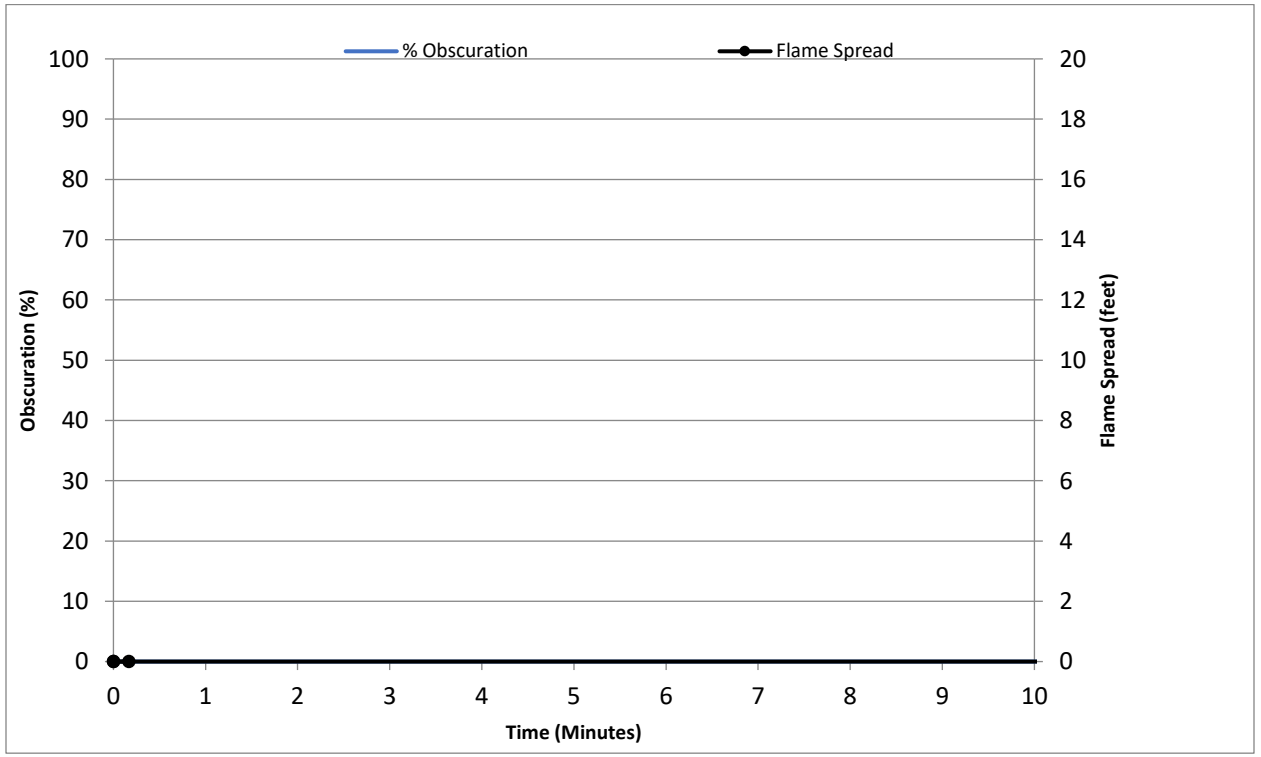
Area Under the Smoke Curve (Obs-min.): 0.00
Area Under Heptane Curve (Obs-min.): 95.18

Post-Test Observations

Discoloration (Feet From Burner): 24
Char (Feet From Burner): 8

Flame Spread / Smoke Results

Coat Zone Company
Coil Safe Product



Test Num.: 1
NEW / 4790592456
11182212

Flame Spread Index: 0
Smoke Developed Index: 0
Max. Flame Spread (ft.): 0.0