Out

SUMMARY DATA

ASTM D635-18 (-14,-06) Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position

General:

Client: J&H American Enclosures LLC

Job Number: JAEL022823-69

Test Location: ICC NTA

Date Received: 4/3/2023

Construction Date: 4/18/2023

Constructed By: Dave Lane

Nappanee, Indiana

Test Variable: Tested polymer concrete specimens per ANSI/SCTE 77 2017

Proc. Modifications: Specimens were cut to 1-in. wide x thickness received (~0.75-in.) instead of the specified 13.0mm maximum

thickness x 13.5mm maximum width per ANSI/SCTE 77 2017

Product Description:

Manufacturer: J&H American Enclosures LLC Trade Name/Designation: Polymer Concrete boxes

Material Description: Polymer Concrete sheet material, varied thickness Nominal Specimen Dimensions: 25.4-mm. wide x 127-mm. long x 19-mm. thick

Specimens were conditioned at 73.4 ± 3.6 and $50 \pm 10\%$ R.H. for a minimum of 88 hours before testing

Ambient Conditions: Apparatus: Asset No.

Ambient Temp.: 71.2° F K-Type Thermocouple: 02349 Ambient R.H.: 47.3% R.H. Thermocouple Reader: 00973 00586 02842 Sensor Asset No.: Timer: Chamber: 02334 Test Data: Calipers: 02426

Performed By: Dave Lane Was flexible support fixture used? No

Witnessed By: Brian Tedeschi Test Date: 4/20/2023

ASTM D5207 Flame Confirmation: Time (sec) from 100 - 700°C:

#1 43 #2 44 #3 45 #4 45 #5 44

				If flame reached 25 mm mark				
		Burn after	Did flame			Did flame	Linear	
	Average	30-sec	reach 25	Burned		reach 100	burning	
Specimen	Thickness	flame?	mm mark?	length, L	Elapsed	mm mark?	rate*, V	
Number	(mm)	(Y/N)	(Y/N)	(mm)	time, t (sec)	(Y/N)	(mm/min)	Observations
154687	19.6	N	N	N/A	N/A	N/A	N/A	Specimen did not ignite
154688	20.3	N	N	N/A	N/A	N/A	N/A	Specimen did not ignite
154689	20.4	N	N	N/A	N/A	N/A	N/A	Specimen did not ignite
X-1	20.8	N	N	N/A	N/A	N/A	N/A	Specimen did not ignite
Average	20.3			#DIV/0!	#DIV/0!		#DIV/0!	

^{*}Linear burning rate is only required to be calculated if flame reached the 100 mm mark. For classification purposes, the linear burning rate was calculated for all specimens that burned past the 25 mm mark.

This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire hazards or fire risk assessment of materials, products, or assemblies under actual fire conditions.

Additional Nothing additional to note.

Observations:

This material shall be classified as Class CC1 for the tested thickness per Appendix X2 of ASTM D635

Class CC1: Plastic materials that have a burning extent of 1 in. [25 mm] or less where tested at a nominal thickness of 0.060 in. [1.5 mm], or in the thickness intended for use, in accordance with this test method.

Class CC2: Plastic materials that have a burning rate of 2.5 inches per minute [1.06 mm/s] or less where tested at a nominal thickness of 0.060 in. [1.5 mm], or in the thickness intended for use, in accordance with this test method.

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