PRI Construction Materials Technologies LLC

6412 Badger Drive
Tampa, FL 33610
813.621.5777
https://www.pri-group.com/

Laboratory Test Report

Report for:	Tom Rashotte Snowventco Limited 131 Frankford Rd. Foxboro, ON K0K B0, Canada
Product Names:	Roofer's Vent Exhaust Black
Project No.:	2451T0002
Dates Tested:	May 25, 2022 – January 11, 2023
Test Methods:	ASTM D1929, ASTM D635
Results Summary:	Compliant with Miami-Dade Checklist# 0445 Requirements

Purpose:

Evaluate the rate of burn, self-ignition temperature, and weathered tensile strength of the submitted plastic roof vent in accordance with the methods and requirements outlined in the Miami-Dade Regulatory and Economics Resources Product Control Section Check List #0445 For the Approval of Plastic and Foam Plastic.

Test Methods:

Testing for weathered tensile strength was conducted in compliance with ASTM G155-13 Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials. Product samples were exposed to xenon arc weathering for a duration of 4,500h. Testing was conducted in accordance with ASTM D638-14 Standard Test Method for Tensile Properties of Plastics. Testing for self-ignition temperature was conducted in accordance with ASTM D1929-16: Standard Test Method for Determining Ignition Temperature of Plastics. Testing for rate of burn was conducted in accordance with ASTM D635-14: Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.

Sampling:

The following materials were received via common carrier by PRI.

Product	Source	Date	Sampling
Snow Vent	Lakeville, MN	April 5, 2022	Air Vent

Test Results:

Table 1: ASTM D638 Tensile Strength

Physical Properties	Test Method	Results							Requirement
Unexposed Control									
Tensile Strength, (psi) Type IV specimens; Cond. 24h @ 73±4°F & 50%RH; Test @ 73±4°F & 50%RH;	ASTM D 638	1	2	3	4	5	**Avg.**	St.Dev.	
Rate = 2in./min		2411	2293	2424	2482	2517	**2425**	86	Report
Elongation at Break, (psi) Type IV specimens; Cond. 24h @ 73±4°F & 50%RH; Test @ 73±4°F & 50%RH;	ASTM D 638	1	2	3	4	5	**Avg.**	St.Dev.	
Rate = 2in./min		53	42	101	73	79	**69**	23	Report
After Exposure									
Accelerated Weathering Exposure 4,500h Cycle 1	ASTM G 155								
Tensile Strength, (psi) Type IV specimens; Cond. 24h @ 73±4°F & 50%RH; Test @ 73±4°F & 50%RH;	ASTM D 638	1	2	3	4	5	**Avg.**	% Retained	
Rate = 2in./min		2859	2627	2652	2580	2483	**2640**	+9	Report
Elongation at Break, (psi) Type IV specimens; Cond. 24h @ 73±4°F & 50%RH; Test @ 73±4°F & 50%RH;	ASTM D 638	1	2	3	4	5	**Avg.**	% Retained	
Rate = 2in./min		85	85	77	45	74	**73**	+6	Report

Notes: None

Table 2: ASTM D635 Rate of Burn

Property	Test Method	Result	Requirement[1,2]
Burning Rate, [in/min]	ASTM D 635	0.40	Report
Burning Extent, [in]		2.95	Report
Combustibility Classification		C-2	C-1 or C-2

Note(s): 1- FBC 2010 Section 2612.2: Class C-1 is defined as having a burning extent < 1 in (25.4 mm)
2- FBC 2010 Section 2612.2: Class C-2 is defined as having a burning rate < 2.5 in/min (64 mm)

Table 3: ASTM D1929 Self-Ignition Temperature

Property	Test Method	Result[1]	Requirement[2]
Self-Ignition Temperature, (°F)	ASTM D 1929	833	≥ 650

Note(s): 1- These test results relate only to the behavior of the test specimens under the particular conditions of the test. They are not intended to be used, and shall not be used, to assess the potential fire hazards of a material in use.
2- As required by Miami-Dade Checklist #0445 sample shall have a self-ignition temperature of 650°F or greater.

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Statement of Compliance:
The product evaluated was tested in accordance with the requirements outlined in the Miami-Dade Regulatory and Economics Resources Product Control Section Check List #0445 For the Approval of Plastic and Foam Plastic. The laboratory test results presented in this report are representative of the material supplied.

Signed: _____
Jason Simons
Director

Date: **December 20, 2023**

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	12/20/2023	3	NA

End of Report

PRI Construction Materials Technologies LLC 6408 Badger Drive Tampa, FL 33610 Tel: 813-621-5777 Fax: 813-621-5840 e-mail: materialstesting@pricmt.com WebSite: http://www.pricmt.com