CONSTRUCTION MATERIALS

TECHNOLOGIES

LABORATORY TEST REPORT

Report for: DCI Products
100 Mill Street
Clifton Heights, PA 19018

Date: September 8, 2009

Attention: Jack Henderson

Product Name:	SmartVent	**Manufacturer:**	DCI Products
Date Received:	August 27, 2009	**Sampling Information:**	*DCI Products to provide*
PRI Report No.:	DCIP-001-02-01	**Dates Tested:**	9/1/2009-9/3/2009

Purpose: Determine the material properties of DCI Product's SmartVent as described per **ICC-ES AC132: *Acceptance Criteria for Attic Vents,* Section 3.3.1: *Approved Plastics.*** Rate of burn performance is tested in accordance with **ASTM D 635: *Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position***. Self-ignition temperature performance is tested in accordance with **ASTM D 1929: *Standard Test Method for Determining Ignition Temperature of Plastics***.

Test Methods: Testing was completed as outlined in ASTM D 635-06: *Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position*, and ASTM D 1929-96: *Standard Test Method for Determining Ignition Temperature of Plastics*. The Spontaneous Ignition Temperature (SIT) procedure was followed for ASTM D 1929 testing.

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

Results of Testing:

ASTM D 635

Property	Test Method	Result	Requirement
Burning Rate, *[in/min]*	ASTM D 635	2.17	Report
Burning Extent, *[in]*	ASTM D 635	3.0	Report
Combustibility Classification	ASTM D 635	CC2	CC1[1] or CC2[2]

[1]IBC 2606.4: Class CC1 is defined as having a burning extent ≤ 1 in
[2]IBC 2606.4: Class CC2 is defined as having a burning rate ≤ 2.5 in/min

ASTM D 1929

Property	Test Method	Result	Requirement
Self-Ignition Temperature min; (°F)	ASTM D 1929	820[2]	≥ 650[1]

[1]IBC 2606.4: Shall have a self-ignition temperature of 650°F or greater.
[2]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.

Statement of Attestation:

The rate of burn performance of this material was determined in accordance with **ASTM D 635: *Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position***. The self-ignition temperature performance of this material was determined in accordance with **ASTM D 1929: *Standard Test Method for Determining Ignition Temperature of Plastics***. The laboratory test results presented in this report are representative of the material supplied.

Signed: _____
Charlie Rumpeltin
Laboratory Technician

Date: **September 8, 2009**

Signed: _____
Zach Priest
Manager

Signed: _____
Brad Grzybowski
Director

Date: **September 8, 2009**

Date: **September 8, 2009**

Appendix

A. Test Data – *ASTM D 635 for SmartVent*

B. Test Data – *ASTM D 1929 for SmartVent*

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TEST DATA WORKSHEET

ASTM D 635: Standard Test Method for
Rate of Burning and/or Extent and Timeof Burning of Plastics in a Horizontal Position

Client:	DCI Products	**PRI Project ID:**	DCIP-001-02-01
Product Name:	SmartVent	**ICC-ES Sampling:**	DCI Products to provide
Product Decription:	Attic Ventilation System	**Miami-Dade Notification:**	N/A

Test Specimens:

Length:	125.0 mm	**Thickness:**	4.5 mm
Width:	13.0 mm		
Material Color:	Black		
Density:	N/A kg/m^3		
Conditioning:	48 at 73°F & 50%RH		

Test Data:

Specimen	Anisotropy Direction	Thickness (mm)	Burn Time (s)	Burn Length (mm)	Rate of Burn (mm/s)	Rate of Burn (in/min)
1	Axial	4.45	74	75	1.01	2.39
2	Axial	4.45	52	75	1.44	3.41
3	Axial	4.45	68	75	1.10	2.61
4	Transverse	4.45	126	75	0.60	1.41
5	Transverse	4.45	109	75	0.69	1.63
6	Transverse	4.45	114	75	0.66	1.55
7					NT	NT
8					NT	NT
9					NT	NT
10					NT	NT
Avg.		4.45	91	75	0.92	2.17
Std. Dev.		0.000	29.7	0.0	0.330	0.778

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TEST DATA WORKSHEET

ASTM D 1929: Standard Test Method for Determining Ignition Temperature of Plastics

Client:	DCI Products	**PRI Project ID:**	DCIP 001-02-01
Product Name:	SmartVent	**ICC-ES Sampling:**	DCI Products to provide
Product Decription:	Attic Ventilation System	**Miami-Dade Notification:**	NA

Test Specimens:

Material Color:	Black	
Density:	N/A	kg/m^3
Conditioning:	48h	at 73 °F & 50 %RH

Test Data:

Spontaneous Ignition Temperature

Specimen	Mass (g)	Temperatures			Combustion	
		Furnace, TC_3 (°F)	Air, TC_2 (°F)	Sample, TC_1 (°F)	Ignition (yes/no)	Glowing / Flaming
1	3.00	790	760	720	no	no
2	3.00	830	800	760	no	no
3	3.00	850	820	1060	yes	flaming
4						
5						
6						
7						
8						
9						
10						
Spontaneous Ignition Temperature (°F):			820			

Observations: **All specimens melt to a liquid puddle**
All specimens smoke above 700°F
All specimens char above 750°F

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