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CUSTOM PLASTICS DISTRIBUTORS, INC.
TEST REPORT

SCOPE OF WORK
ASTM D635 RATE OF BURN OF AIRGUARD AND A COMPETITOR'S ABS PLASTIC FLOOR GROMMETS

REPORT NUMBER
K7020.01-106-31 R0

TEST DATE
03/06/20

ISSUE DATE
03/24/20

RECORD RETENTION END DATE
03/06/24

PAGES
8

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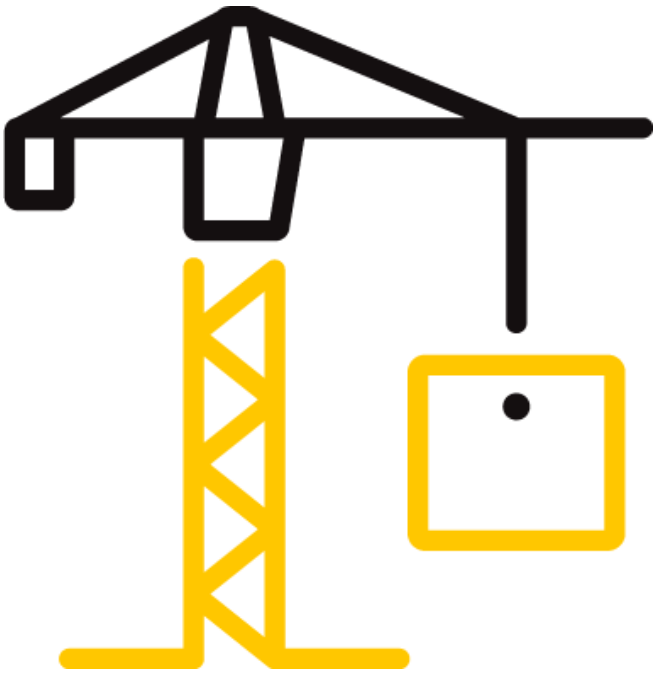

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TEST REPORT FOR CUSTOM PLASTICS DISTRIBUTORS, INC.
Report No.: K7020.01-106-31 R0
Date: 03/24/20

REPORT ISSUED TO

CUSTOM PLASTICS DISTRIBUTORS, INC.
P.O. Box 672
Putnam, Connecticut 06260

SECTION 1

SCOPE

Products: AirGuard and a Competitor's ABS Plastic Floor Grommets

Intertek Building & Construction (B&C) was contracted by Custom Plastics Distributors, Inc. to evaluate AirGuard and a competitor's ABS Plastic Floor Grommets in accordance with ASTM D635 for Rate of Burn. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at the Intertek B&C test facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

For INTERTEK B&C:

COMPLETED BY:	Isaiah S. Gingrich	**REVIEWED BY:**	Dawn M. Chaney
TITLE:	Technician I Materials Laboratory	**TITLE:**	Technician Team Lead Materials Laboratory
SIGNATURE:	Digitally Signed by: Isaiah Gingrich	**SIGNATURE:**	Digitally Signed by: Dawn M. Chaney
DATE:	03/24/20	**DATE:**	03/24/20

ISG:dmc/als

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SECTION 2
TEST METHOD

The specimens were evaluated in accordance with the following:

> **ASTM D635-18**, *Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position*

SECTION 3
MATERIAL SOURCE

The materials were provided by Custom Plastics Distributors, Inc. The following were received on 2/19/20: six AirGuard ABS Plastic Floor Grommets and six of a competitor's ABS Plastic Floor Grommets. The materials were tested as received with the exception of preparing the smaller test specimens from the materials. Representative materials/test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

SECTION 4
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Isaiah S. Gingrich	Intertek B&C
Dawn M. Chaney	Intertek B&C

SECTION 5
TEST PROCEDURE

All conditioning of test specimens and test conditions were at standard laboratory conditions unless otherwise reported. Refer to the test related photos in Section 9. Calibration certificates available upon request.

ASTM D635, Rate of Burn

The linear rate of burn of the material was determined utilizing a laboratory burner (ICN: Y002875) inside of a fire hood (ICN: 005985). A specimen was supported horizontally at one end and exposed to a gas flame at the free end for 30 seconds. After 30 seconds or when the flame contacted the 25-mm mark, the gas flame was removed from the specimen, and the rate of burn was measured with a timer until the flame contacted the 100-mm mark or the flame self-extinguished.

Caveat: *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*.

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SECTION 6
TEST SPECIMEN DESCRIPTIONS

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS	VISUAL CHARACTERISTICS
ASTM D635	10	150mm x 13mm x 2.5mm	AirGuard ABS Plastic Floor Grommet; black plastic
ASTM D635	3	150mm x 13mm x 2.5mm	Competitor's ABS Plastic Floor Grommet; black plastic

SECTION 7
TEST RESULTS

ASTM D635 Rate of Burn: AirGuard ABS Plastic Floor Grommet

SPECIMEN	INITIAL BURN	SUSTAINED BURN	BURN TIME (s)	BURN LENGTH (mm)	BURN RATE (mm/min)	COMMENTS
1	Yes	Yes	N/A	N/A	N/A	Sagged to Gauze Wire Below
2	Yes	No	N/A	N/A	N/A	Sagged to Gauze Wire Below
3	Yes	Yes	N/A	N/A	N/A	Sagged to Gauze Wire Below
4	Yes	Yes	110	14	N/A	Sagged to Gauze Wire Below
5	Yes	Yes	N/A	N/A	N/A	Sagged to Gauze Wire Below
6	Yes	Yes	N/A	N/A	N/A	Sagged to Gauze Wire Below
7	Yes	Yes	N/A	N/A	N/A	Sagged to Gauze Wire Below
8	Yes	Yes	104	34	N/A	Sagged to Gauze Wire Below
9	Yes	Yes	N/A	N/A	N/A	Sagged to Gauze Wire Below
10	Yes	No	N/A	N/A	N/A	Sagged to Gauze Wire Below

Average Rate of Burn: N/A (None of the specimens burned to the 100mm mark)
Average Specimen Dimension: 152.4-mm long by 13.17-mm wide by 2.49-mm thick

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ASTM D635 Rate of Burn: Competitor's ABS Plastic Floor Grommet

SPECIMEN	INITIAL BURN	SUSTAINED BURN	BURN TIME (s)	BURN LENGTH (mm)	BURN RATE (mm/min)	COMMENTS
1	Yes	Yes	210	75	21.4	Melting, Dripping, Ignition of Dripped Material
2	Yes	Yes	177	75	25.4	Melting, Dripping, Ignition of Dripped Material
3	Yes	Yes	178	75	25.3	Melting, Dripping, Ignition of Dripped Material

Average Rate of Burn: 24.0 mm/min
Average Specimen Dimension: 152.4-mm long by 13.15-mm wide by 2.67-mm thick

SECTION 8
CONCLUSION

The requested test method does not contain specific performance requirements. Results are reported as obtained.

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SECTION 9
PHOTOGRAPHS

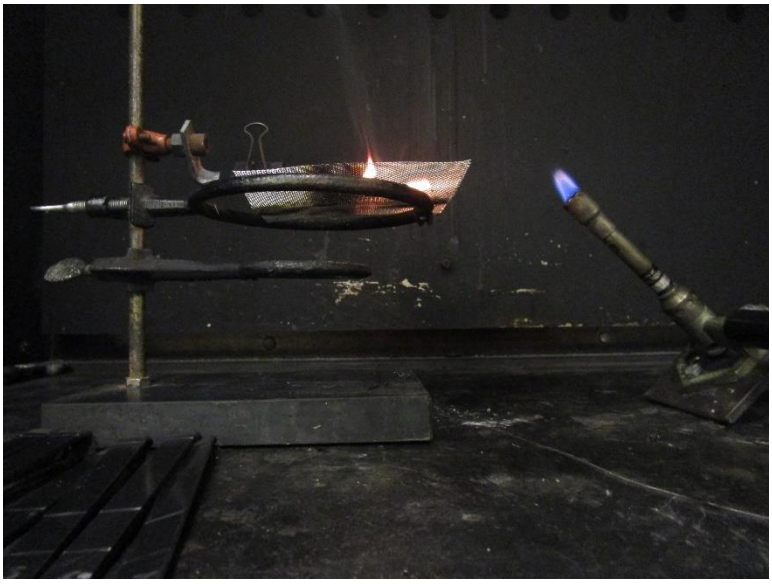

Photo No. 1
Test Setup

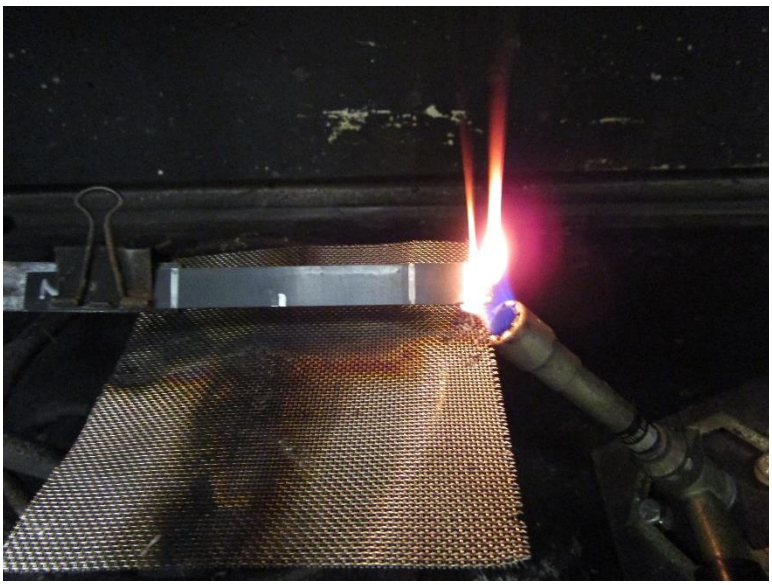

Photo No. 2
Ignition of Specimen

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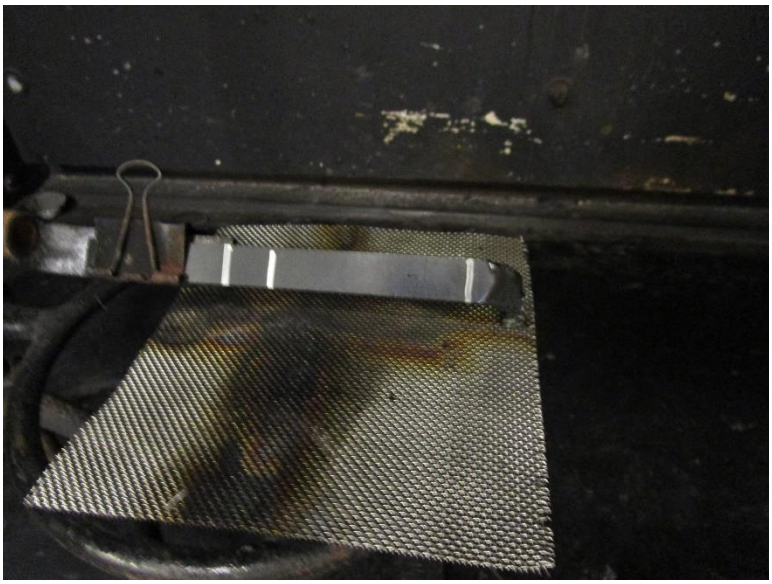

Photo No. 3
Post-Test AirGuard ABS Plastic Floor Grommet Specimen with Burned End

Photo No. 4
Flame Traveling on Competitor's ABS Plastic Floor Grommet Specimen

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SECTION 10
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	03/24/20	N/A	Original Report Issue