

ICC-ES Report

PMG-1264

ICC-ES | (800) 423-6587 | (562) 699-0543 | www.icc-es.org

Reissued 09/21//2018
This report is subject to renewal 06/2019

EVALUATION SUBJECT:

SURFACE BURNING CHARACTERISTICS FOR FLOWGUARD GOLD[®], PRODUCTS MADE WITH TEMPRITE[®] TECHNOLOGY, AND CORZAN[®] CPVC PIPE AND FITTINGS

DIVISION:

23 00 00—MECHANICAL

SECTION:

23 00 00—HVAC

Report Holder:

LUBRIZOL ADVANCED MATERIALS, INC.

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ICC-ES PMG Product Certificate

PMG-1264



Effective Date: June 2018

Revision Date: September 21, 2018

This listing is subject to re-examination in one year.

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CSI: DIVISION: 23 00 00—MECHANICAL
Section: 23 00 00—HVAC

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: Surface Burning Characteristics for FlowGuard Gold®, Products made with TempRite® Technology, and Corzan® CPVC Pipe and Fittings

Listee: Lubrizol Advanced Materials, Inc.
9911 Brecksville Road
Cleveland, Ohio 44141
www.lubrizol.com/cpvc

Additional Companies:

Bow Industrial Corporation (FlowGuard Gold® Pipe and Fittings)
15 Vittie Street
Granby, QC J2G 6N8
Canada
www.bow-group.com

Charlotte Pipe and Foundry Company (FlowGuard Gold® Pipe and Fittings)
2109 Randolph Road
Charlotte, NC 28207
www.charlottepipe.com

Cresline Plastic Pipe Co., Inc. (FlowGuard Gold® Pipe)
600 Cross Pointe Boulevard
Evansville, IN 47715
www.cresline.com

Genova Products, Inc. (FlowGuard Gold® Pipe and Fittings)
P.O. Box 309
Davison, MI 48423
www.genovaproducts.com

Georg Fischer Harvel LLC (FlowGuard Gold® Pipe and Corzan® ChlorFIT® Pipe and Fittings)
300 Kuebler Road
Easton, PA 18040
www.harvel.com

IPEX USA LLC (Corzan® Pipe and Fittings and AquaRise® made with TempRite® Technology Pipe and Fittings)
2441 Royal Windsor Drive
Mississauga, On L5J 4C7
Canada
www.ipexamerica.com

NIBCO Inc.(FlowGuard Gold® fittings and Corzan® fittings)
1516 Middlebury Street
Elkhart, Indiana 46516
www.nibco.com

Compliance with the following codes:

2018, 2015, 2012, 2009 and 2006 *International Mechanical Code*® (IMC)
2018, 2015, 2012, 2009 and 2006 *Uniform Mechanical Code*® (UMC)*

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Compliance with the following standards:

ASTM E 84-18, Test Method for Surface Burning Characteristics of Building Materials
UL 723 (Ed. 11), Test for Surface Burning Characteristics of Building Materials

Identification:

Pipe must bear the manufacturer's name or trademark, test standard, rating and the ICC-ES PMG listing mark.

Fittings must bear manufacturer's name or trademark, nominal size and a third party certification mark. Packaging must be marked with test standard, rating and ICC-ES PMG listing mark.

Installation:

The pipe and fittings are to be installed in accordance with the manufacturer's instructions and the applicable code.

Installation of pipe and fittings within ducts and plenums shall be in accordance with Section 602 of the IMC or 602.0 of the UMC

Models:

The following CPVC pipe and fittings models have been tested as a single row of four 24 in. pipe lengths placed end to end, with a coupling between each length followed by a 15 ft. length of pipe either water-filled or dry as a modified* version of UL 723 / ASTM E 84, Test Methods for Surface Burning Characteristics. The following ratings were obtained and have been found to meet the 25/50 flame spread/smoke developed requirements.

- 1/2" – 2" water-filled FlowGuard Gold® CPVC pipe and fittings have a flame spread index of no more than 5 and a smoke developed index of no more than 35.
- 1/2" – 2" dry FlowGuard Gold® CPVC pipe and fittings for condensate lines have a flame spread index of no more than 5 and a smoke developed index of no more than 25.
- 1/2" – 6" water-filled Corzan® CPVC pipe and fittings have a flame spread index of 0 and a smoke developed index of no more than 20.
- 1/2" – 2" dry Corzan® CPVC pipe and fittings for condensate lines have a flame spread index of no more than 0 and a smoke developed index of no more than 20.
- 1/2" – 4" water-filled Products made with TempRite® Technology CPVC pipe and fittings have a flame spread index of 0 and a smoke developed index of no more than 20.

* The specimens tested are not conducive to full coverage of the 20 in. x 24 ft. test sample as specified by UL 723/ASTM E84. Therefore, only a certain portion of the total area exposed to the flame is covered by the test samples. The tested specimens are representative models of finish product.

Conditions of listing:

1. The pipe and fitting models recognized by this listing have been evaluated for surface burning characteristics only. Evaluation of the CPVC pipe and fittings to the applicable performance standard in accordance with Chapter 6 of the IPC or UPC is outside the scope of this report.
2. The plumbing systems must be installed in accordance with the applicable codes.
3. The CPVC resin used in the manufacturing of the pipe and fittings covered by this report were supplied by Lubrizol and are under a quality control program with annual surveillance inspections by ICC-ES.