



Heated Backlight Element Compatibility, Weatherstrips

1 Introduction

Note: Nothing in this standard supercedes applicable laws and regulations.

Note: In the event of conflict between the English and domestic language, the English language shall take precedence.

1.1 Purpose. This test is used to determine whether the ingredients in the weatherstrip will react detrimentally with the silver frit and cause it to malfunction.

1.2 Applicability. This test procedure is applicable to all weatherstrips in contact with heated backlight elements.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

None

2.2 GM Standards/Specifications.

None

2.3 Additional References.

Laboratory Accreditation Requirements

Part Number TST-04-014, available from Pilkington North America, (see 3.2.1)

3 Resources

3.1 Facilities.

3.1.1 Calibration. The test facilities and equipment shall be in good working order and shall have a valid calibration label.

3.1.2 Alternatives. Alternative test facilities and equipment may also be used. However, all measuring variables as specified in this standard shall be determined correctly with respect to their physical definition.

3.2 Equipment.

3.2.1 Silk screened glass plates, part number TST-04-014 (or equivalent), available from Pilkington North America, Incorporated, 2401 E. Broadway, Northwood, Ohio, 43619. See Appendix A, Figure A1.

3.2.2 Weights, 0.45 kg each.

3.2.3 Air-circulating oven capable of maintaining the required test temperatures within the specified tolerances.

3.3 Test Vehicle/Test Piece. Cut two (2) specimens, 25 mm × 25 mm of uniform thickness from each weatherstrip to be tested.

3.4 Test Time. Reference the lab test procedure(s) in Section 4 for timing details.

3.5 Test Required Information. Not applicable.

3.6 Personnel/Skills. Per laboratory accreditation requirements.

4 Procedure

4.1 Preparation. Not applicable.

4.2 Conditions.

4.2.1 Environmental Conditions. Not applicable.

4.2.2 Test Conditions. Deviations from the requirements of this standard shall have been agreed upon. Such requirements shall be specified on component drawings, test certificates, reports, etc.

4.3 Instructions.

4.3.1 Place the specimens on individual silver strips and place a 0.45 kg mass on top of the specimen. Cover the remaining silver strips with paper to prevent contamination.

Note: Individual silver strips may not be reused, even if they have not shown signs of staining and/or degradation.

4.3.2 Place the plate with the specimens and weights into an air-circulating oven at $+85^{\circ}\text{C} \pm 3^{\circ}\text{C}$ for $24\text{ h} \pm 0.1\text{ h}$.

Note: Oven must be cleaned prior to test or test assembly shall be separated from oven environment (e.g., inside of a desiccator) to prevent contamination.

4.3.3 After exposure, remove the assembly from the oven and immediately remove the weight and weatherstrip specimen from the glass panel.

4.3.4 Check for staining and/or degradation of the silver strip.

4.3.5 Report any staining or degradation of the silver strip.

5 Data

5.1 Calculations. Not applicable.

5.2 Interpretation of Results. Not applicable.

5.3 Test Documentation. Report the results of this test procedure in a test report. Include complete identification of samples, number of samples tested, and any staining or degradation of the silver strip.

6 Safety

This Engineering Standard may involve safety requirements for hazardous materials, the method of operations and equipment. This standard does not propose to address all the safety issues associated with its use. It is the responsibility of the user of this standard to ensure compliance with all appropriate safety and health practices. This would include any specific training that may be required. The safety and health standards include site specific rules and procedures, company rules and procedures, and Government Standards. Contact shall be made with the appropriate site Safety and Health personnel for further direction and guidance in these matters.

7 Notes

7.1 Glossary. Not applicable.

7.2 Acronyms, Abbreviations, and Symbols. Not applicable.

8 Coding System

This standard shall be referenced in other documents, drawings, etc., as follows:

Test to GMW15381

9 Release and Revisions

This standard was originated in June 2006. It was first approved by the Global Elastomers Team in December 2006. It was first published in April 2007.

Issue	Publication Date	Description (Organization)
1	APR 2007	Initial publication.
2	JUN 2012	Five year refresh of standard. Placed in Test Procedure template. (Elastomers Global Subsystem Leadership Team)
3	SEP 2017	Refresh. Updated to current template. (Materials – Elastomers Global Subsystem Leadership Team)