

- [Home Home](#)
- [About this portal](#)
- [Latest updates](#)

[Save](#)

[Resource detail](#)
[Citations](#)

ASTM G155 - 05 Standard Practice for Operating Xenon Arc Light Apparatus for UV Exposure of Nonmetallic Materials

[View on Information Provider website](#)

Abbreviation

ASTM G155 - 05

Valid from

01/01/2005

Information provider

American Society of Testing and Materials

Author

American Society of Testing and Materials

Information type

ASTM Standard

Format

PDF

Cited By

[This resource is cited by 7 documents \(show Citations\)](#)

Cites

[This resource cites 4 documents \(show Citations\)](#)

Description

This practice covers the basic principles and operating procedures for using xenon arc light and water apparatus intended to reproduce the weathering effects that occur when materials are exposed to sunlight (either direct or through window glass) and moisture as rain or dew in actual use. This practice is limited to the procedures for obtaining, measuring, and controlling conditions of exposure.

Test specimens are exposed to filtered xenon arc light under controlled environmental conditions. Different types of xenon arc light sources and different filter combinations are described.

Specimen preparation and evaluation of the results are covered in ASTM methods or specifications for specific materials. General guidance is given in Practice G 151 and ISO 4892-1. More specific information about methods for determining the change in properties after exposure and reporting these results is described in ISO 4582.

This document is referenced in E2/AS1 in regard to closed cell foam tape

For assistance with locating previous versions, please contact the information provider.

[View on Information Provider website](#)

This resource is cited by:

ASTM G155 - 05 Standard Practice for Operating Xenon Arc Light Apparatus for UV Exposure of Nonmetallic Materials

This document is CITED BY:

- [E2/AS1 \(Third Edition, Amendment 5, Errata 2\)](#)
ASTM G155 - 05 is cited by Acceptable Solution E2/AS1: External Moisture from 01/08/2011
- [E2/AS1 \(Third Edition, Amendment 9\)](#)
ASTM G155 - 05 is cited by Acceptable Solution E2/AS1: External Moisture from 01/08/2011
- [E2/AS1 \(Third Edition, Amendment 7\)](#)
ASTM G155 - 05 is cited by Acceptable Solution E2/AS1: External Moisture from 01/08/2011
- [E2/AS1 \(Third Edition, Amendment 5\)](#)
ASTM G155 - 05 is cited by Acceptable Solution E2/AS1: External Moisture from 01/08/2011
- [E2/AS1 \(Third Edition, Amendment 6\)](#)
ASTM G155 - 05 is cited by Acceptable Solution E2/AS1: External Moisture from 01/08/2011
- [E2/AS1 \(Third Edition, Amendment 8\)](#)
ASTM G155 - 05 is cited by Acceptable Solution E2/AS1: External Moisture from 01/08/2011
- [AS/NZS 2712:2007](#)
ASTM G155 - 05 is cited by AS/NZS 2712:2007 Solar and heat pump water heaters - Design and construction

Back

ASTM G155 - 05 Standard Practice for Operating Xenon Arc Light Apparatus for UV Exposure of Nonmetallic Materials

Show what documents this resource is CITED BY

Show what documents this resource CITES

Description

This practice covers the basic principles and operating procedures for using xenon arc light and water apparatus intended to reproduce the weathering effects that occur when materials are exposed to sunlight (either direct or through window glass) and moisture as rain or dew in actual use. This practice is limited to the procedures for obtaining, measuring, and controlling conditions of exposure.

Test specimens are exposed to filtered xenon arc light under controlled environmental conditions. Different types of xenon arc light sources and different filter combinations are described.

Specimen preparation and evaluation of the results are covered in ASTM methods or specifications for specific materials. General guidance is given in Practice G 151 and ISO 4892-1. More specific information about methods for determining the change in properties after exposure and reporting these results is described in ISO 4582.

This document is referenced in E2/AS1 in regard to closed cell foam tape

[View on Information Provider website](#)

[ASTM G155 - 05 Standard Practice for Operating Xenon Arc Light Apparatus for UV Exposure of Nonmetallic Materials](#)

Description

This practice covers the basic principles and operating procedures for using xenon arc light and water apparatus intended to reproduce the weathering effects that occur when materials are exposed to sunlight (either direct or through window glass) and moisture as rain or dew in actual use. This practice is limited to the procedures for obtaining, measuring, and controlling conditions of exposure.

Test specimens are exposed to filtered xenon arc light under controlled environmental conditions. Different types of xenon arc light sources and different filter combinations are described.

Specimen preparation and evaluation of the results are covered in ASTM methods or specifications for specific materials. General guidance is given in Practice G 151 and ISO 4892-1. More specific information about methods for determining the change in properties after exposure and reporting these results is described in ISO 4582.

This document is referenced in E2/AS1 in regard to closed cell foam tape

[View on Information Provider website](#)

This resource cites:

ASTM G155 - 05 Standard Practice for Operating Xenon Arc Light Apparatus for UV Exposure of Nonmetallic Materials

This document CITES:

Other

- [ASTM D3980-88](#)

ASTM G155 - 05 cites ASTM D3980-88 Practice for Interlaboratory Testing of Paint and Related Materials

- [ASTM E691-05](#)

ASTM G155 - 05 cites ASTM E691-05 Standard Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method

- [ASTM G113 - 05](#)

ASTM G155 - 05 cites ASTM G113 - 05 Standard Terminology Relating to Natural and Artificial Weathering Tests of Nonmetallic Materials

- [ASTM G151 - 00](#)

ASTM G155 - 05 cites ASTM G151 - 00 Standard Practice for Exposing Nonmetallic Materials in Accelerated Test Devices that Use Laboratory Light Sources

Back

Close

Table of Contents

Print

[Save](#)

Email

[Feedback](#)

- [Contact us](#)
- [Privacy policy](#)
- [Disclaimer](#)
- [Copyright](#)

--	--	--

--

[Feedback](#)