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Designation: D1693 – 15

Standard Test Method for Environmental Stress-Cracking of Ethylene Plastics[1]

This standard is issued under the fixed designation D1693; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope*

1.1 This test method covers the determination of the susceptibility of ethylene plastics, as defined in Terminology D883, to environmental stress-cracking when subjected to the conditions herein specified. Under certain conditions of stress and in the presence of environments such as soaps, wetting agents, oils, or detergents, ethylene plastics may exhibit mechanical failure by cracking.

1.2 The values stated in SI units are to be regarded as standard.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

NOTE 1—There is no known ISO equivalent to this standard.

2. Referenced Documents

2.1 *ASTM Standards:*[2]

D618 Practice for Conditioning Plastics for Testing

D883 Terminology Relating to Plastics

D1204 Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheeting or Film at Elevated Temperature

D1248 Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable

D3350 Specification for Polyethylene Plastics Pipe and Fittings Materials

D4703 Practice for Compression Molding Thermoplastic Materials into Test Specimens, Plaques, or Sheets

D4976 Specification for Polyethylene Plastics Molding and Extrusion Materials

E691 Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method

2.2 *ASTM Adjuncts:*

Apparatus Drawings and Blueprints[3]

3. Terminology

3.1 *Definitions:*

3.1.1 *stress-crack, n*—an external or internal rupture in a plastic caused by tensile stresses less than its short-time mechanical strength.

3.1.1.1 *Discussion*—The development of such cracks is frequently accelerated by the environment to which the plastic is exposed. The stresses which cause cracking may be present internally or externally, or may be a combination of these stresses. The appearance of a network of fine cracks is called crazing.

3.1.2 *stress-crack failure, n*—for purposes of this test method, any crack visible to an observer with normal eyesight shall be interpreted as a failure of the entire specimen (1).[4] Extension of the controlled imperfection shall not be construed as a failure. The appearance of more than one crack in a single specimen shall be construed as a single failure.

3.1.2.1 *Discussion*—Cracks generally develop at the controlled imperfection and run to the outer edge of the specimen approximately at right angles to it (2). The cracks need not extend completely through the specimen to constitute failure. Cracks sometimes develop under the polymer surface, manifesting themselves as depressions on the surface. The time when this occurs should be noted, and if the depression later develops into a crack, the time of dimpling should be considered as the failure time.

4. Summary of Test Method

4.1 Bent specimens of the plastic, each having a controlled imperfection on one surface, are exposed to the action of a surface-active agent. The proportion of the total number of specimens that crack in a given time is observed.

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[1] This test method is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.15 on Thermoplastic Materials.

Current edition approved May 1, 2015. Published June 2015. Originally approved in 1959. Last previous edition approved in 2013 as D1693 – 13. DOI: 10.1520/D1693-15.

[2] For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

[3] Detail drawings of the apparatus are available from ASTM Headquarters. Request ADJD1693O1, ADJD1693O2, ADJD1693O3, and ADJD1693O4.

[4] The boldface numbers in parentheses refer to the list of references at the end of this test method.

*A Summary of Changes section appears at the end of this standard

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Table of Contents Chapter 15 Standard Test Prep Environmental Science

1. Understanding the eBook Chapter 15 Standard Test Prep Environmental Science
    - The Rise of Digital Reading Chapter 15 Standard Test Prep Environmental Science
    - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 15 Standard Test Prep Environmental Science
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Chapter 15 Standard Test Prep Environmental Science
    - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 15 Standard Test Prep Environmental Science
    - Personalized Recommendations
    - Chapter 15 Standard Test Prep Environmental Science User Reviews and Ratings
    - Chapter 15 Standard Test Prep Environmental Science and Bestseller Lists
5. Accessing Chapter 15 Standard Test Prep Environmental Science Free and Paid eBooks

- Chapter 15 Standard Test Prep Environmental Science Public Domain eBooks
- Chapter 15 Standard Test Prep Environmental Science eBook Subscription Services
- Chapter 15 Standard Test Prep Environmental Science Budget-Friendly Options

6. Navigating Chapter 15 Standard Test Prep Environmental Science eBook Formats
   - ePub, PDF, MOBI, and More
   - Chapter 15 Standard Test Prep Environmental Science Compatibility with Devices
   - Chapter 15 Standard Test Prep Environmental Science Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Chapter 15 Standard Test Prep Environmental Science
   - Highlighting and Note-Taking Chapter 15 Standard Test Prep Environmental Science
   - Interactive Elements Chapter 15 Standard Test Prep Environmental Science
8. Staying Engaged with Chapter 15 Standard Test Prep Environmental Science
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Chapter 15 Standard Test Prep Environmental Science
9. Balancing eBooks and Physical Books Chapter 15 Standard Test Prep Environmental Science
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Chapter 15 Standard Test Prep Environmental Science
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Chapter 15 Standard Test Prep Environmental Science
    - Setting Reading Goals Chapter 15 Standard Test Prep Environmental Science
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 15 Standard Test Prep Environmental Science
    - Fact-Checking eBook Content of Chapter 15 Standard Test Prep Environmental Science
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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