



Standard Specification for Elastomeric Cellular Preformed Gasket and Sealing Material¹

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

1. Scope

1.1 This specification applies to those elastomeric cellular materials of a firm grade that are manufactured in preformed shapes for use as gaskets and for use as sealing materials, in the form of compression seals or gaskets, or both, for glazing other building joint applications.

NOTE 1—For softer cellular elastomeric materials used in secondary sealing applications, refer to Specification D 1056.

1.2 *Test Method C 1166, as referenced in this specification, should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.*

1.3 The following precautionary caveat pertains only to the test method portion, Section 11, of this specification: *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.*

2. Referenced Documents

2.1 ASTM Standards:

- C 717 Terminology of Building Seals and Sealants²
- C 1083 Test Method for Water Absorption of Cellular Elastomeric Gaskets and Sealing Materials²
- C 1166 Test Method for Flame Propagation of Dense and Cellular Elastomeric Gaskets and Accessories²
- D 395 Test Methods for Rubber Property—Compression Set³

¹ This specification is under the jurisdiction of ASTM Committee C-24 on Building Seals and Sealants and is the direct responsibility of Subcommittee C24.73 on Compression Seal and Lock-Strip Gaskets.

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² Annual Book of ASTM Standards, Vol 04.07.

³ Annual Book of ASTM Standards, Vol 09.01.

- D 412 Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers—Tension³
- D 746 Test Method for Brittleness Temperature of Plastics and Elastomers by Impact⁴
- D 865 Test Method for Rubber—Deterioration by Heating in Air (Test Tube Enclosure)³
- D 925 Test Methods for Rubber Property—Staining of Surfaces (Contact, Migration, and Diffusion)³
- D 1056 Specification for Flexible Cellular Materials—Sponge or Expanded Rubber⁴
- D 1149 Test Method for Rubber Deterioration—Surface Ozone Cracking in Chamber³

3. Terminology

3.1 *Definitions*—Refer to Terminology C 717 for the following terms used in this specification: cellular material, elastomeric, gasket glazing, seal, and sealing material.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *compression seal*—a type of joint seal in which weathertightness is maintained by the exertion of compressive pressure on the gasket or sealing material.

3.2.2 *gasket glazing*—a method of setting glass or panels in prepared openings, using a preformed gasket to obtain a weathertight seal.

3.2.3 *preformed gasket*—an elastomeric compound molded in the form of a continuous strip, channel, or other shape, for use in filling joints and providing weathertight seals in glazing or between building components.

4. Materials and Manufacture

4.1 Elastomeric cellular materials furnished to this specification shall be manufactured from natural rubber, synthetic rubber, rubber-like materials, or mixtures of these, with added compounding ingredients of such nature and quality that, with proper curing, the finished product will comply with this specification.

4.2 The cured compounds shall be suitable for use where resistance to sunlight, weathering, oxidation, and permanent deformation under load are of prime importance.

4.3 The manufacturing process shall be such to ensure a

⁴ Annual Book of ASTM Standards, Vol 08.01.