



Standard Specification for Dense Thermoplastic Elastomers Used for Compression Seals, Gaskets, Setting Blocks, Spacers and Accessories¹

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1. Scope

1.1 This specification describes products composed of dense thermoplastic elastomers that are fabricated into gaskets and accessories (such as compression seals, setting blocks, spacers, and shims) for use in sealing and glazing applications in building construction. These products are used to seal or serve as components of compression sealing systems between mechanically restrained surfaces in building construction.

1.2 The values stated in metric (SI) units are to be regarded as the standard. The inch-pound values given in parentheses are provided for information purposes only.

1.3 Test Method C1166, 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 that takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.

1.4 *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 requirements prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

C717 Terminology of Building Seals and Sealants

C864 Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers

C1087 Test Method for Determining Compatibility of Liquid-Applied Sealants with Accessories Used in Structural Glazing Systems

C1166 Test Method for Flame Propagation of Dense and Cellular Elastomeric Gaskets and Accessories

D395 Test Methods for Rubber Property—Compression Set

D412 Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension

D471 Test Method for Rubber Property—Effect of Liquids

D573 Test Method for Rubber—Deterioration in an Air Oven

D624 Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers

D746 Test Method for Brittleness Temperature of Plastics and Elastomers by Impact

D792 Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement

D865 Test Method for Rubber—Deterioration by Heating in Air (Test Tube Enclosure)

D925 Test Methods for Rubber Property—Staining of Surfaces (Contact, Migration, and Diffusion)

D1149 Test Methods for Rubber Deterioration—Cracking in an Ozone Controlled Environment

D1566 Terminology Relating to Rubber

D2000 Classification System for Rubber Products in Automotive Applications

D2137 Test Methods for Rubber Property—Brittleness Point of Flexible Polymers and Coated Fabrics

D2240 Test Method for Rubber Property—Durometer Hardness

D3182 Practice for Rubber—Materials, Equipment, and Procedures for Mixing Standard Compounds and Preparing Standard Vulcanized Sheets

2.2 Other Documents:

Rubber Manufacturers Association (RMA) Standard; Rubber Handbook, Fourth ed. December 1984³

Uniform Freight Classification Rules⁴

¹ This specification is under the jurisdiction of ASTM Committee C24 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 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 Available from the Rubber Manufacturers Association, 1400 K Street, NW, Washington, DC 20005.

⁴ Available from the Western Railroad Association, Department of Services and Supply, Room 1150, 222 S. Riverside Plaza, Chicago, IL 60606-5945.