



Standard Guide to Properties and Tests of Mastics and Coating Finishes for Thermal Insulation¹

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1. Scope

1.1 This guide identifies properties of mastics and coating finishes characterizing their performance as finishes for thermal insulation.

1.2 These properties relate to application and service. Each property is defined, and its significance and suggested test methods are described.

1.3 The properties appear in the following order in this guide.

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Other Properties

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1.4 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

2. Referenced Documents

2.1 ASTM Standards:²

- C168 Terminology Relating to Thermal Insulation
- C419 Practice for Making and Curing Test Specimens of Mastic Thermal Insulation Coatings
- C461 Test Methods for Mastics and Coatings Used With Thermal Insulation
- C488 Test Method for Conducting Exterior Exposure Tests of Finishes for Thermal Insulation
- C639 Test Method for Rheological (Flow) Properties of Elastomeric Sealants
- C681 Test Method for Volatility of Oil- and Resin-Based, Knife-Grade, Channel Glazing Compounds
- C733 Test Method for Volume Shrinkage of Latex Sealants (Withdrawn 2000)³
- C755 Practice for Selection of Water Vapor Retarders for Thermal Insulation
- C792 Test Method for Effects of Heat Aging on Weight Loss, Cracking, and Chalking of Elastomeric Sealants
- D36/D36M Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)
- D56 Test Method for Flash Point by Tag Closed Cup Tester
- D92 Test Method for Flash and Fire Points by Cleveland Open Cup Tester
- D93 Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
- D529 Practice for Enclosed Carbon-Arc Exposures of Bituminous Materials (Withdrawn 2013)³
- D543 Practices for Evaluating the Resistance of Plastics to Chemical Reagents

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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 The last approved version of this historical standard is referenced on www.astm.org.