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Standard Specification for Preformed Polychloroprene Elastomeric Joint Seals for Concrete Pavements[1]

This standard is issued under the fixed designation D2628; 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 Department of Defense.

1. Scope

1.1 This specification covers the material requirements for preformed polychloroprene elastomeric joint seals for concrete pavements. The seal consists of a multiple web design and functions only by compression of the seal between the faces of the joint with the seal folding inward at the top to facilitate compression. The seal is installed with a lubricant and is designed to seal the joint and reject incompressibles.

1.2 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.

1.3 *This standard does not purport to address 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—This specification is a manufacturing and purchasing specification only and does not include requirements or considerations for selection of size, or the installation of the joint seals. However, experience has shown that successful performance of this product depends upon the proper selection of size and cross-sectional design of the joint seal, joint size, and joint spacing for the ambient conditions the pavement will be exposed to, and care in the installation of the joint seals.

2. Referenced Documents

2.1 *ASTM Standards:*[2]

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

D518 Test Method for Rubber Deterioration—Surface Cracking (Withdrawn 2007)[3]

D573 Test Method for Rubber—Deterioration in an Air Oven

D575 Test Methods for Rubber Properties in Compression

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

D2240 Test Method for Rubber Property—Durometer Hardness

D3183 Practice for Rubber—Preparation of Pieces for Test Purposes from Products

3. Materials and Manufacture

3.1 The seals shall be preformed, and the material shall be vulcanized elastomeric compound using polychloroprene as the only base polymer.

4. Physical Requirements

4.1 The materials shall conform to the physical properties prescribed in Table 1.

4.2 In the applicable requirements of Table 1 and the test methods, all deflections shall be based on the nominal width of the seal.

5. Dimensions and Permissible Variations

5.1 The size, shape, and dimensional variations shall be as agreed upon by the purchaser and the producer or supplier.

6. Workmanship

6.1 Seals shall be free of defects in workmanship and materials that may affect its serviceability.

7. Sampling

7.1 A lot shall consist of the quantity for each cross section agreed upon by the purchaser and the producer or supplier.

7.2 Samples shall be taken at random from each shipment of material. If the shipment consists of more than one lot, each lot shall be sampled.

[1] This specification is under the jurisdiction of ASTM Committee D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.34 on Preformed Joint Fillers, Sealers and Sealing Systems.

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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.