

Designation: D 4314 - 99

An American National Standard

Standard Specification for General-Purpose, Heavy-Duty, and Extra-Heavy-Duty Crosslinked Chlorosulfonated Polyethylene (CSM) Jackets For Wire and Cable¹

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1. Scope

- 1.1 This specification covers crosslinked chlorosulfonated polyethylene compounds suitable for use as outer coverings or jackets on electrical cables for general-purpose, heavy-duty, and extra-heavy-duty service.
- 1.2 These jacket materials are not recommended for cables installed at a temperature lower than -25°C.
- 1.3 Whenever two sets of values are presented, in different units, the values in the first set are the standard, while those in parentheses are for information only.

2. Referenced Documents

- 2.1 ASTM Standards:
- D 470 Test Methods for Crosslinked Insulations and Jackets for Wire and Cable²
- D 1248 Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable³
- D 1711 Terminology Relating to Electrical Insulation²

3. Terminology

3.1 Definitions: and site hai/catalog/standards/sist/e58a

- 3.1.1 For definitions of terms used in this specification refer to Terminology D 1711.
 - 3.2 Definitions of Terms Specific to This Standard:
- 3.2.1 aging (act of), n—exposure of materials to air at 100°C for 168 h or oil at 121°C for 18 h.

4. Test Applicable for Sunlight and Weather– Resistant Materials

4.1 For jackets requiring sunlight- and weather-resistance testing, test in accordance with "Weatherability for Colored Materials" in Specification D 1248. Prepare the specimens in accordance with Test Methods D 470 for physical tests of insulations and jackets.

5. Physical Properties

5.1 The jacket shall conform to the requirements for physical properties prescribed in Table 1.

6. Sampling

3 6.1 Sample the jacket in accordance with Test Methods D 470.

7. Test Methods

7.1 Unless otherwise instructed, test the jacket in accordance with Test Methods D 470.

8. Keywords

8.1 crosslinked chlorosulfonated polyethylene jacket; crosslinked jacket; extra-heavy-duty jacket; general-purpose jacket; heavy-duty jacket; rubber jacket

¹ This specification is under the jurisdiction of ASTM Committee D-9 on Electrical and Electronic Insulating Materials and is the direct responsibility of Subcommittee D09.18 on Solid Insulations, Non-Metallic Shieldings and Coverings for Electrical and Telecommunications Wires and Cables.

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² Annual Book of ASTM Standards, Vol 10.01.

³ Annual Book of ASTM Standards, Vol 08.03.