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# Standard Specification for General-Purpose, Heavy-Duty, and Extra-Heavy-Duty Crosslinked Chlorinated Polyethylene (CM) Jackets For Wire and Cable<sup>1</sup>

This standard is issued under the fixed designation D4313; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This specification covers crosslinked chlorinated polyethylene (CM) 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 use on cables which are to be installed at a temperature less than  $-25^{\circ}\text{C}$ .

1.3 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*:<sup>2</sup>

[D470 Test Methods for Crosslinked Insulations and Jackets for Wire and Cable](#)

[D1499 Practice for Filtered Open-Flame Carbon-Arc Exposures of Plastics](#)

[D1711 Terminology Relating to Electrical Insulation](#)

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee D09 on Electrical and Electronic Insulating Materials and is the direct responsibility of Subcommittee D09.07 on Electrical Insulating Materials.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

[G153 Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials](#)

## 3. Terminology

3.1 *Definitions*: For definitions of terms used in this specification refer to Terminology [D1711](#).

3.2 *Definitions of Terms Specific to This Standard*:

3.2.1 *aging (act of), n*—exposure of materials to air at a temperature of  $121^{\circ}\text{C}$  for 168 h and oil at  $121^{\circ}\text{C}$  for 18 h.

## 4. Physical Properties

4.1 Crosslinked jackets shall conform to the requirements for physical properties specified in [Table 1](#).

## 5. Sunlight and Weather Resistance Requirements

5.1 If sunlight and weather resistance are required of the crosslinked jackets, the jackets shall conform to the requirements specified in [Table 2](#).

## 6. Sampling

6.1 Sample the jacket in accordance with Test Methods [D470](#).

## 7. Test Methods

7.1 Test the jacket in accordance with Test Methods [D470](#). If the sunlight and weather resistance test is required, perform it in accordance with Practice [D1499](#) and Practice [G153](#).

## 8. Keywords

8.1 chlorinated polyethylene; crosslinked; oil immersion; sunlight resistance; tear; tensile strength; tensile stress; tension test; weather resistance