



Designation: D 3555 – 9801

An American National Standard

Standard Specification for Track-Resistant Black Crosslinked Polyethylene Insulation for Wire and Cable, 90°C Operation¹

This standard is issued under the fixed designation D 3555; 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.

1. Scope*

1.1 This specification covers a ~~black~~ track-resistant ~~black~~ crosslinked polyethylene insulation, the base polymer which consists substantially of polyethylene or its copolymers. This insulation shall be carbon black pigmented.

1.2 This type of insulation is considered suitable for use on wire or cable that will be used for continuous operation at conductor temperatures up to 90°C.

1.3 This insulation is suitable for use on wire or in cable used for power transmission in overhead spaced-line service, installed at temperatures above -25° and exposed to sunlight and other atmospheric environments between -55 and +7590°C.

1.34 In many instances, the insulation cannot be tested unless it has been formed around a conductor. Therefore, tests are done on insulated wire in this standard solely to determine the relevant property of the insulation and not to test the conductor or completed cable.

1.5 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:

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

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*A Summary of Changes section appears at the end of this standard.