



Designation: D 2220 – 9702

An American National Standard

Standard Specification for Poly(Vinyl Chloride) Insulation for Wire and Cable, 75°C Operation¹

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1. Scope

1.1 This specification covers a thermoplastic insulation of poly(vinyl chloride) or the copolymer of vinyl chloride and vinyl acetate.

1.2 This insulation is recommended for use at conductor temperatures not in excess of 75°C in dry locations at a maximum voltage rating of 300 V for power and control circuits with an insulation at temperatures not higher than 75°C. At a thickness of 15 mils (0.38 mm), application is recommended at conductor temperatures not in excess limited to voltage ratings below 300 V, and to dry locations. At a thickness of 75°C in wet or 30 mils, the application range is widened to dry-1 or wet applications, and to a maximum voltage rating of 600 V for power and control circuits.

1.2 The V.

1.3 Whenever two sets of values stated are presented, in inch-pound units different units, the values in the first set are the standard, except while those in cases where SI units are more appropriate. The values in parentheses are for information only.

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

2. Referenced Documents

2.1 ASTM Standards:

D 1711 Terminology Relating to Electrical Insulation²

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, Non-metallic Shieldings, and Coverings for Electrical and Telecommunications Wires and Cables.

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