



Standard Test Methods for Solventless Electrical Insulating Varnishes¹

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1. Scope

- 1.1 These test methods cover solventless varnishes used primarily as electrical, mechanical, and environmental protection for electrical equipment.
- 1.2 These test methods are used on solventless varnishes that are applied by dipping (at atmospheric pressure conditions or under vacuum or other certain pressure), spraying, or brushing for the purpose of impregnating or sealing electrical equipment. The following test methods are included:

Property Tests (Uncured):	Section
Density	7
Flash Point	8
Gel Time	9
Monomer Content	10
Rheological Properties (Non-Newtonian)	11
Brookfield Viscosity	12
Performance Property Tests (cured):	
Bond Strength	13
Coating Thickness	14
Dielectric Strength	15
Dielectric Strength-Using Metal Panels	16
Permittivity and Dissipation Factor	17
Build	18

- 1.3 The values stated in inch-pound units are to be regarded as the standard. The values in parentheses are for information only.
- 1.4 *This standard does not purport to address all of 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.* Specific hazard statements are given in 8.3, 15.5.1, and 15.5.2.

NOTE 1—This test method is related to IEC 60455. Since both methods contain multiple test procedures, many procedures are technically equivalent while others differ significantly.

¹ These test methods are under the jurisdiction of ASTM Committee ~~D-9~~ D09 on Electrical and Electronic Insulating Materials and is the direct responsibility of Subcommittee D09.01 on Electrical Insulating Varnishes, Powders, and Encapsulating Compounds.
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