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Industrial Laminating Thermosetting Products

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Foreword

This new version of the standards for **Industrial Laminated Thermosetting Products**, previously designated as NEMA LI 1-1998 (R2011), was developed by the Insulating Materials section of the National Electrical Manufacturers Association (NEMA). The new version will be designated as ANSI/NEMA IM 60000-2021, consistent with NEMA's new standard designation scheme of alphanumeric designations (two letters representing the section, followed by a five-digit number). It deals with the manufacture, testing, and performance of laminated thermosetting products in the form of sheets, rods, and tubes. A new format for the Industrial Laminate (Unclad) Standard has been established in which the requirements for the physical and electrical properties of the individual NEMA Grades have been consolidated and placed on individual Specification Sheets with this format, so all of the information on an individual material will be found in one place.

This revision includes NEMA Grades G-12, G-13, G-15, and GPO-5. Also, metric (SI) units were included in this revision; in case of discrepancy between units, imperial is taken as correct.

Industrial Unclad Laminates only. Most of the materials in this publication have been developed over a period of years in close coordination with user needs. New and improved grades have been developed to satisfy military and industrial requirements, particularly in the aerospace, electronic, and computer industries. In most cases, these standards are the same as military specifications.

Suggestions for the improvement of this standard are welcome. They should be sent to:

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National Electrical Manufacturers Association
1300 North 17th Street, Suite 900
Rosslyn, VA 22209

This standard was processed and approved for submittal to ANSI by the NEMA LI 1 Committee. Committee approval of the standard does not necessarily imply that all committee members voted for its approval. At the time it approved this standard, the NEMA LI 1 Committee had the following members:

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ELTEK International Laboratories	Edward	Van Vooren
Rochling Glastic Composites	Robert	Brown
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The Gund Company, Inc.	Mike	Moran

Starting with the 2021 edition, because of a change in software used to published this standard, page numbering and other formatting details might differ from LI 1-1998 (R2011).

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1 General

1.1 Scope

The scope of this standards publication includes information concerning the manufacture, testing, and performance of laminated thermosetting products in the form of sheets, rods, and tubes.

A new format for the Industrial Laminate (Unclad) Standard has been established in which the requirements for the physical and electrical properties of the individual NEMA Grades have been consolidated and placed on individual Specification Sheets. With this format, all of the information on an individual material will be found in one place.