

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Polymeric Materials – Industrial Laminates, Filament Wound Tubing, Vulcanized Fibre, and Materials Used In Printed-Wiring Boards, UL 746E, are being proposed:

- 1. Clarification of the term Industrial Laminate***
- 2. Addition of requirement for sample stabilization period***
- 3. Revision to the Measurement Accuracy and Testing Conditions requirements***
- 4. Clarification of requirements in Table 7.2***
- 5. Addition of reference to 7.17 in Table 7.4***
- 6. Harmonization of terminology in 7.17***
- 7. Ultrathin Laminate and Prepreg Test Program title update for Tables 10.3 and 10.4***
- 8. Clarification of 10.3.2***
- 9. Clarification of the purpose of 17.11***

STP BALLOTS AND ALL COMMENTS DUE: November 5, 2018

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Clarification of the term Industrial Laminate

RATIONALE

Proposal submitted by: Crystal Vanderpan, UL LLC

UL proposes to update the definition of Industrial Laminate to include additional detail regarding the reinforcement and resin. The intent of the proposal is for clarification and to reflect current practice.

It is the opinion of the proposal submitter that this proposal contains a construction requirement revision or clarification.

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PROPOSAL

2.52 INDUSTRIAL LAMINATE – Insulating material consisting of reinforcement impregnated/coated with resin and laminated under pressure and high temperature. The resin may contain filler, and the reinforcement may be cellulose paper, cotton, woven glass, random laid glass mat or other fibers and films. See Base Material.

2. Addition of requirement for sample stabilization period

RATIONALE

Proposal submitted by: Crystal Vanderpan, UL LLC

UL proposes to harmonize the stabilization period requirements prior to testing with the other material standard, the Standard for Polymeric Materials – Short Term Property Evaluations, UL 746A, as well as the Standard Practice for Conditioning Plastics for Testing, ASTM D618, and the Standard for Plastics – Standard Atmospheres for Conditioning and Testing, ISO 291. UL746A requires 88 hours for the stabilization period due to the possibility of testing samples greater than 7 mm in thickness. The PWB samples tested are less than 7 mm in thickness, and therefore the stabilization time period can be 40 hours. Please note that this change is being proposed for all of the standards covered by STPs 796 and 796F.

PROPOSAL

4.1.1 Prior to all tests, subject all samples to a stabilization period in accordance with the Standard Practice for Conditioning Plastics for Testing, ASTM D618 and the Standard for Plastics – Standard Atmospheres for Conditioning and Testing, ISO 291, for a minimum of 40 hours at 23 ±2°C and 50 ±10 percent RH.

4.2 During the test, Unless otherwise specified in the individual test method, the standard atmospheric conditions surrounding the sample for a minimum of 40 hours prior to and during the test shall be 25°C ±10°C (77°F ±18°F) and 50 ±10 percent relative humidity, unless otherwise specified in the individual test method.

3. Revision to the Measurement Accuracy and Testing Conditions requirements

RATIONALE

Proposal submitted by: Crystal Vanderpan, UL LLC

UL proposes to update the testing conditions section for clarification and to reflect current practice.

It is the opinion of the proposal submitter that this proposal contains a construction requirement revision or clarification.

PROPOSAL

4.3 Flammability samples shall be preconditioned as described in the Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances, UL 94, or, As an alternative to the 70°C for 168 hours preconditioning, industrial laminate and solder resist materials shall be preconditioned using the alternate conditions of 125 ±2°C for 24 ±1 hours, unless otherwise specified.