

STANDARD INFORMATION

Standard Number: UL 8750

Standard Name: Light Emitting Diode (LED) Equipment for Use in Lighting Products

Standard Edition and Issue Date: 2nd Edition dated September 15, 2015

Date of Revision: July 30, 2019

Date of Previous Revision of Standard: August 22, 2018

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **June 1, 2021**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revised requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.

Overview of Changes: Insulation systems of insulating transformers interacting with NIM (Non-Electrical Insulating Material). Specific details of new/revised requirements are found in table below.

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Client Action:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



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CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.</i>
6	Info	Mechanical Construction
6.7	Info	Potting compound
		During the Temperature Test of 8.3, a potting compound shall comply with (a) or (b) as applicable. <u>Item (c) applies when the requirements in item (a) have been applied:</u>
		a) Unless the material is thermosetting, a polymeric potting compound shall not exceed its Relative Thermal Index (RTI).
		<i>Exception No. 1: A thermoplastic polymeric potting compound may be used if the maximum potting compound temperature doesn't exceed 90°C (194°F) during the Temperature Test of 8.3.</i>
		<i>Exception No. 2: A thermoplastic polymeric potting compound may be used if the maximum potting compound temperature is at least 15°C (27°F) less than the softening point of the compound as determined by the Standard Test Methods for Softening Point of Resins Derived from Pine Chemicals and Hydrocarbons, by Ring-and-Ball Apparatus, ASTM E28.</i>
6.7.2		<i>Exception No. 3: A thermoplastic polymeric potting compound may be used if the maximum potting compound temperature is at least 25°C (77°F) less than the softening point of the compound as determined by the Standard Test Methods for Vicat Softening Temperature of Plastics, ASTM D1525.</i>
		b) An asphalt potting compound shall remain at least 15°C (27°F) below its softening point as determined by the Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus), ASTM D36/D36M.
		<u>c) Potting compound, resin, encapsulant or any other material dispensed inside the enclosure of a unit in one aggregation status that it is not solid and can touch any part of the insulation system of a transformer shall be tested in accordance with Supplement SA – Substitutions or Modification to an Electrical Insulation System in the Standard for Systems of Insulating Materials – General, UL 1446.</u>
		<u>NOTE: This test does not apply to the use of asphalt.</u>



CLAUSE	VERDICT	COMMENT
		<p><u>Exception No. 1: This test does not apply if the transformer is not used for the mitigation of the risk of electric shock or is not used to separate Class 2 circuits or LVLE circuits from hazardous circuits.</u></p> <p><u>Exception No. 2: This test does not apply if the transformer insulation system already includes the potting.</u></p> <p><u>Exception No. 3: This test does not apply if the insulation system is used up to the temperature permitted for class 105 (A) according to Table 8.1 of this standard.</u></p>

CUSTOMERS PLEASE NOTE: This Table and column “Verdict” can be used in determining how your current or future production is or will be in compliance with new/revised requirements.