STANDARDS UPDATE NOTICE (SUN)
ISSUED: October 7, 2024

STANDARD INFORMATION

Standard: UL 879
Standard ID: Electric Sign Components [UL 879:2009 Ed.9+R:18Dec2023]
Previous Standard ID: Electric Sign Components [UL 879:2009 Ed.9+R:22Apr2022]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **December 18, 2025**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- Dielectric Withstand Test
- Polymeric enclosure requirements
- Polymeric material requirements
- Installation Instructions

Specific details of new/revised requirements are found in table below

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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.

STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		Additions to existing requirements are <u>underlined</u> and deletions are shown ~~lined out~~ below.
2	Info	**Construction**
2.1	Info	**Enclosure**
2.1.4	Info	**Polymeric enclosures**
2.1.4.2		***New clause added;*** A polymeric enclosure material shall comply with (a) – (c) below and, where applicable, alternative and additional requirements in Sections 4 and 5 for specific components. a) 5V flammability for components intended for fixed and stationary signs; V-2 or better flammability for components intended for portable signs. b) RTI (relative temperature index) no less than the maximum temperature measured during the Normal Temperature Test. For components intended for damp or wet location signs, or intended for signs subject to sun exposure, the minimum RTI shall be no less than 15 °C higher than as measured. c) UV resistant for components intended for use in (1) signs with fluorescent, HID, or neon light sources, (2) wet location signs, or (3) pendant signs likely to be installed behind a window. Note 1: The interior of a wet location sign is a damp location. Note 2: Components with polymeric enclosure characteristics that limit their intended use are to be marked per 2.16.8.
2.16	Info	**Markings**
2.16.8		***New clause added;*** A sign component intended for a restricted use (see 2.1.4.2 Note 2) shall be marked or provided with instructions identifying the use limitations.

CLAUSE	VERDICT	COMMENT
4	Info	**Specific Components Only for Use in an End Product**
4.1	Info	**General**
4.1.4		~~The installation instructions are to be verbatim as specified in Table 4.2. The applicable installation instructions for each component are specified under the section for a specific component. Additional installation instructions are permitted based on the intended use of the component.~~ A sign component shall be provided with installation instructions intended to inform the installer of any use constraints based on the component's evaluation and known limitations. In addition to installation instructions as specified in the section covering the particular component, the installation instructions shall identify whether the component: a) Is limited to portable, stationary, or fixed sign applications b) Must be installed within an appropriate fire containment enclosure or behind an accessibility barrier c) Must only be installed outside of a fire containment enclosure (e.g., decorative material) d) Is suitable for dry, damp, or wet location exposure e) Is eligible to serve as an enclosure or sign body. f) Is suitable for terminating conduit g) Is eligible to mechanically support other components. h) Requires some minimum spacing from other heat producing devices i) Requires some minimum spacing from conductive accessible sign surfaces j) Must be supplied only by a class 2 power source of max ___ V and/or ___ A k) Is suitable only for max ___ kV line-to-line and/or ___ kV line-to-ground.
4.6	Info	**Polymeric neon electrode enclosures**
4.6.2	Info	**Construction requirements**
4.6.2.1		***New clause added;*** neon electrode enclosure shall be minimum 0.7 mm (0.028 in) thick and be rated as follows: a) 5VA, b) CTI = 1, and c) minimum RTI 120 °C (248 °F) for dry location signs or 135 °C (275 °F) for all other sign applications.

CLAUSE	VERDICT	COMMENT
4.6.5	Info	**Tests**
4.6.5.5		***New clause added;*** A neon electrode enclosure shall additionally comply with the following tests: a) Dry location – Mold Stress. b) Damp location – Same as dry location, plus Impact and Dielectric Withstand after Condensation. c) Wet location – Same as damp location, plus Rain.
4.9	Info	**GTO cable sleeving**
4.9.2	Info	**Construction requirements**
4.9.2.1		***New clause added;*** GTO cable sleeving material, integral or separable, shall have an inside diameter (see Figure 4.7) of 9.4 – 9.65 mm (0.37 – 0.38 in) unless restricted per 4.9.7.2(d), and be rated as follows: a) 5VA for fixed and stationary signs; minimum V-2 for portable signs, b) CTI = 1, and c) minimum RTI 105 °C (221 F) for dry location portable signs or 120 °C (248 °F) for all other sign applications.
4.9.5	Info	**Tests**
4.9.5.4		***New clause added;*** GTO cable sleeving, integral or separable, intended for a wet location sign shall additionally comply with the Rain Test.
4.10	Info	**GTO cable splice enclosure**
4.10.2	Info	**Construction requirements**
4.10.2.2		***New clause added;*** A polymeric cable splice enclosure shall be rated as follows: a) 5VA, b) CTI = 1, and c) minimum RTI 105 °C (221 °F)

CLAUSE	VERDICT	COMMENT
4.10.5	Info	**Tests**
4.10.5.2		***New clause added;*** Each sample in a set of three GTO cable splice enclosure samples shall comply with the Dielectric Voltage Withstand Test in 3.4.2.5 after the following conditioning steps. A separate set of three samples is used for each conditioning and dielectric withstand test:. a) Dry location – temperature aging (3.2.1.1), ozone (3.2.1.4), UV (3.2.1.5), and humidity (3.2.1.6). b) Damp location – Same as dry, plus cold (3.2.1.7) and condensation (3.4.2.9).
4.10.5.5		***New clause added;*** GTO cable splice enclosure intended for a wet location sign shall additionally comply with the Rain Test.
4.11	Info	**Non-enclosure rated Sign and channel letter material**
4.11.2	Info	**Construction requirements**
4.11.2.1		***New clause added;*** Polymeric material shall be rated minimum HB and RTI 50 °C (122 °F), except channel letter materials shall be rated 80 °C (176 °F) for incandescent and LED, and 120 °C (248 °F) for fluorescent, neon, or HID. Channel letter materials for incandescent and HID shall additionally have a min. CTI = 1
4.11.3	Info	**Tests**
4.11.3.2		***New clause added;*** For channel letter materials, three samples prepared as specified for the Polymeric Sheet Material Impact Test in 3.2.2.9 shall be humidity conditioned (3.2.1.6) then subjected to the Impact Test of 3.4.1.6. Additional sets of three samples shall be prepared, separately conditioned as follows, and then subjected to the Impact Test: a) Ozone conditioning (3.2.1.4) if intended for damp or wet locations, or for fluorescent or neon/cold cathode signs b) UV conditioning (3.2.1.5) if intended for damp or wet locations, or for HID, fluorescent, or neon/cold cathode signs
4.11.3.3		***New clause added;*** Channel letter materials shall comply with the Mold Stress Test.

CLAUSE	VERDICT	COMMENT
4.12	Info	**Enclosure materials**
4.12.2	Info	**General**
4.12.2.1		***New clause added;*** Enclosure material shall be rated as follows: a) 5VA for fixed and stationary signs; minimum V-2 for portable signs, b) minimum RTI 75 °C (167 °F) for sign body and face materials; 105 °C (221 °F) for dry location channel letters and 120 °C (248 °F) for damp location channel letters. c) min. CTI = 1 for channel letters
4.12.3	Info	**Tests**
4.12.3.1		***New clause added;*** Three samples of enclosure material samples prepared as specified for the Polymeric Sheet Material Impact Test in 3.2.2.9 shall be conditioned as follows and then subjected to the Impact Test of 3.4.1.6: a) Ozone conditioning (3.2.1.4) if intended for damp or wet locations, or for fluorescent or neon/cold cathode signs b) UV conditioning (3.2.1.5) if intended for damp or wet locations, or for HID, fluorescent, or neon/cold cathode signs.
4.12.3.4		***New clause added;*** Enclosure sign face materials shall comply with the Mold Stress Test and, if intended for fixed or stationary signs, the Dielectric Withstand Test after Condensation.
4.14	Info	**Structural materials**
4.14.2	Info	**Construction requirements**
4.14.2.1		***New clause added;*** A structural panel shall be rated min. HB and RTI 50 °C (122 °F).
4.16	Info	**Trim cap**
4.16.2	Info	**Construction and test requirements**
4.16.2.1		***New clause added;*** Polymeric trim cap shall be rated min. RTI 50 °C (122 °F)

CLAUSE	VERDICT	COMMENT
4.16.2.2		***New clause added;*** Three samples of a polymeric trim cap shall be humidity conditioned (3.2.1.6) and then subjected to the Impact Test (3.4.1.6). For a damp or wet location sign, three additional samples shall be subject to UV conditioning (3.2.1.5) followed by the Impact Test.
4.20	Info	**Switch enclosures**
4.20.2	Info	**Construction requirements**
4.20.2.1		***New clause added;*** Switch enclosure polymeric material shall be rated min. RTI 50 °C (122 °F) for dry locations and 65 °C (149 °F) for damp or wet locations.
5	Info	**Sign Components for Field and Factory Installation**
5.15	Info	**Neon tubing support, cable support and cable bushing**
5.15.2	Info	**Construction requirements**
5.15.2.3		A cable support and cable bushing shall be of glass, ceramic, polymeric or other insulating material. A polymeric tube support shall be rated min. HB, CTI = 1, and 60 °C (140 °F) for dry locations and 75 °C (167 °F) for damp locations. A polymeric cable support shall be rated min. V-2, CTI = 1, and 60 °C (140 °F) for dry locations and 75 °C (167 °F) for damp locations.
5.15.4	Info	**Tests**
5.15.4.1	Info	**General**
5.15.4.1.2		A polymeric tube support shall comply with the High Voltage Wet Location Corona and Arcing Test specified in 5.15.4.2 and the Polymeric Component Mounting and Support Test specified in 3.4.1.8 with a weight of 0.92 kg (2 lb). A sample polymeric tube support shall additionally comply with the Dielectric Voltage Withstand Test in 3.4.2.5 after the following conditioning steps, with a separate sample used for each conditioning and dielectric withstand test: ozone (3.2.1.4), UV (3.2.1.5), humidity (3.2.1.6), cold (3.2.1.7), and condensation (3.4.2.9). A sample polymeric cable support for damp locations shall comply with the Dielectric Voltage Withstand Test in 3.4.2.5 after the following conditioning steps, with a separate sample used for each conditioning and dielectric withstand test: ozone (3.2.1.4), UV (3.2.1.5), cold (3.2.1.7), and condensation (3.4.2.9).