

STANDARD INFORMATION

Standard Number: UL 1026
Standard Name: Household Electric Cooking and Food Serving Appliances
Standard Edition and Issue Date: 6th Edition Dated January 27, 2012
Date of Revision: January 20, 2016, August 1, 2016, and August 24, 2017
Date of Previous Revision of Standard: August 10, 2015

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **All reports must comply with the most recent edition of the standard by November 24, 2020**

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requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.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:

- Addition of Separate Action for Stay on Function for Toaster Ovens
- Redundant Control Based of Food Load Ignition Test
- Button or Coin Cell Batteries of Lithium Technology
- Oven Rack Loading Test
- Instruction Manual References to Extension Cords

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 Required:

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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

STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
<p><i>Additions to existing requirements are underlined and deletions are shown lined out below.</i></p>		
<p>The following clauses reflect changes to the standard in the January 1, 2016 revision:</p>		
22	Info	<p>Switches</p> <p><i>New clause added;</i></p>
22.12.1		<p>Additionally, if a clock operated switch incorporates a stay-on feature which is activated in the same direction as the countdown to OFF, two operations are required to engage the stay-on feature.</p> <p><i>New clause added;</i></p>
22.12.2		<p>The clock-operated switch referenced in 22.12.1 shall turn the appliance OFF with a single action or operation.</p> <p><i>New clause added;</i></p>
22.18		<p>A cord-connected automatic toaster shall be provided with a non-automatically resettable supplemental operating control which shall function in the event of failure of any circuit or component which de-energizes the heating elements at the end of normal operation. The supplemental operating control shall include a switch, or fusible or other device, which physically disconnects the ungrounded conductor of the power supply independently of all other switching devices. The supplemental operating control shall function no more than 60 seconds after the maximum operation time as determined in 60.4.2.</p> <p>Exception: A supplemental operating control is not required if there is no ignition of the food load and no ignition of the indicator panel when tested as described in 55.2.5.2 except with all means for disconnecting any heating element shunted out of the circuit. The unit shall operate in this condition for 30 minutes.</p>
55	Info	<p>Abnormal Operation Test</p>
55.2	Info	<p>Specific test conditions</p>
55.2.10	Info	<p>Component failure test</p>



CLAUSE	VERDICT	COMMENT
		<i>New clause added;</i>
55.2.10.6		A single fault condition as described in 55.2.10.1 shall not result in a condition where both the normal and supplemental operating controls fail to open the circuit.
		<i>New clause added;</i>
60.4		Toaster supplemental operating control operation time – Cord connected automatic toaster test
60.4.1		In reference to in 22.18, the times measured in 55.2.5.3 shall not be more than the maximum operation time as determined in 60.4.2 plus 60 seconds.
60.4.2		Three samples shall be operated for one cycle with the toaster set to maximum operation time that the toaster can remain energized; maximum darkness plus any additional cycle extending feature such as "Frozen" or "Defrost". The toaster is to be loaded to maximum capacity with slices of commercially available white bread, each weighing approximately 25 g. The test voltage is to be as described in 41.1.14. The time from energization of the toaster elements to when the primary operating control disconnects the ungrounded conductor of the power supply shall be measured. The longest time measured is to be used as the maximum operation time in 22.18.
	Info	IMPORTANT SAFEGUARDS
71	Info	Specific Appliances
		Toasters
		1. "Oversize foods, metal foil packages, or utensils must not be inserted in a toaster as they may involve a risk of fire or electric shock."
		2. "A fire may occur if toasters are covered or touching flammable material, including curtains, draperies, walls, and the like, when in operation."
71.6		3. "Do not attempt to dislodge food when toaster is plugged in." (This may be omitted if toaster employs sheathed type heating elements.)
		4. " <u>Do not operate unattended.</u> "
		5. " <u>When heating toaster pastries, always use the lightest toast color setting.</u> "
		<u>Exception: If the body of the user manual includes specific instructions regarding toaster pastries, the instructions in the user manual, or equivalent, may replace Item 5 in the Important Safeguards.</u>

The following clauses reflect changes to the standard in the August 1, 2016 revision:



CLAUSE	VERDICT	COMMENT
33	Info	<p>Protection Against Personal Injury</p> <p><i>New clause added;</i></p> <p>The battery compartment of an appliance or any accessory, such as a wireless control, incorporating one or more replaceable coin cell batteries of lithium technologies shall comply with the Standard for Products Incorporating Button or Coin Cell Batteries of Lithium Technologies, UL 4200A, if the appliance or any accessory is intended for use with one or more single cell batteries having a diameter of 32 mm (1.25 in) maximum with a diameter greater than its height.</p> <p>Exception: Not applicable to an appliance intended only to be mounted above a countertop.</p>
	Info	<p>INSTRUCTION MANUAL</p>
69	Info	<p>General</p> <p>An appliance other than a slow cooker provided with a flexible cord less than 4-1/2 feet (1.4 m) in length shall be provided with the following information:</p> <p>a) A short power-supply cord (or detachable power-supply cord) is provided to reduce the risk resulting from becoming entangled in or tripping over a longer cord.</p> <p>b) Longer detachable power-supply cords or extension cords are available and may be used if care is exercised in their use.</p> <p>c) If a longer detachable power-supply cord or extension cord is used:</p> <ol style="list-style-type: none"> 1) The marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance; 2) The cord should be arranged so that it will not drape over the countertop or tabletop where it can be pulled on by children or tripped over unintentionally; and 3) If the appliance is of the grounded type, the cord set or extension cord should be a grounding-type 3-wire cord. <p><i>Exception: Items (b) and (c) above may be omitted if the product complies with all of the following:</i></p> <p><i>a) The instruction manual includes a statement prohibiting the use of a longer detachable power supply cord or extension cord.</i></p> <p><i>b) The appliance is provided with a cord tag marked "CAUTION: Do not use an extension cord" or equivalent. The tag shall be permanently attached to the power supply cord, and located within 2 inches (51 mm) of the plug when shipped from the factory. The tag material and means of attachment to the power supply cord shall comply with the requirements in the Test for Permanence of Cord Tag, Section 62.</i></p>
69.12		
		<p>The following clauses reflect changes to the standard in the August 24, 2017 revision:</p>



CLAUSE	VERDICT	COMMENT
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54A		<i>New section added;</i> Oven Rack Loading Test
54A.1		An oven rack shall not fall from its supports, the test weight shall not slide off the rack and the appliance shall not tip when tested per 54A.2 – 54A.5. Testing shall be performed with the appliance at ambient temperature except for 54A.4.
54A.2		The test is to be conducted using the pan supplied with the appliance. If a pan is not provided, a pan suitable for the appliance is to be used. With the oven rack in the lowest position and fully inserted in the toaster oven, the pan with the test weight of Table 54A.1 (evenly distributed on the pan) is placed on the center of the rack. The test weight includes the weight of the pan.
54A.3		The rack is then pulled out over a period of approximately 2 seconds until contacting the rack stop. If a rack stop is not provided with the unit, the rack shall be pulled out to a distance measuring approximately 50 percent of the rack depth dimension, as measured from the inner plane of the opening where the rack exits the appliance. The rack is to remain fully extended for a period of 60 seconds. The test is repeated with the oven rack in all possible orientations and positions.
54A.4		The appliance is then to be operated at the maximum temperature setting for a minimum of 1 hour, with the oven racks in place, but without the test weight. The test of 54A.3 is then repeated. The appliance shall be allowed to recover to the initial temperature between each rack position or location test.
54A.5		Following the test in 54A.4 a sufficient cool-down period is to be allowed for the appliance to return to its ambient temperature. The test of 54A.3 is then repeated.

Test weight (including test pan)

Table 54A.1	Usable volume¹	Weight
	<= 500 cubic inches (8194 cubic centimeters)	4 lbs (1.8 kg)
	> 500 cubic inches (8194 cubic centimeters)	8 lbs (3.6 kg)
¹ For calculation of usable volume, usable height is from the top of the rack to the bottom of the upper heating element or other physical barrier below the upper heating element. Exception: If provided in the instruction manual, the manufacturer's recommendations regarding spacing from the heating elements shall be followed when determining the usable height.		

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.