## 805 THERMOPLASTIC CONTAINERS FOR UNCOMPACTED SOLID WASTE

- 805.1 Only those thermoplastic materials which can withstand normal wear, penetration by insects, corrosive actions of cleaning an sanitizing compounds and which shall remain relatively unchanged on long term exposure to solid waste and weathering, including temperatures from twenty to one hundred twenty degrees Fahrenheit (20° to 120° F.), shall be used in the fabrication of thermoplastic solid waste (refuse) containers and covers.
- 805.2 Thermoplastic materials as fabricated into solid waste (refuse) containers and covers shall not increase in weight by more than one half percent (0.50%) when evaluated in accordance with the ASTM test method.
- 805.3 Thermoplastic materials used in the fabrication of solid waste containers and covers shall be resistant to the normal uses of household detergents, chemical sanitizing solutions, and other household chemicals, such as (but not limited to) deodorants, insecticides, insect repellents, and rodenticides.
- 805.4 Thermoplastic materials, as used in the fabrication of containers and covers, shall be resistant to ultraviolet degradation for a period of at least three (3) years under normal weathering conditions through the use of ultraviolet radiation screening ingredients, laminates, or coatings.
- 805.5 Thermoplastic solid waste (refuse) containers shall, in general, be designed and fabricated to exclude insects, withstand conditions of the use environment, and be easily cleanable.
- 805.6 The specific requirements set forth in this section shall apply together with such additional requirements as may be considered necessary to assure compliance with these general requirements.
- 805.7 The container shall be of watertight construction, and shall comply with the following specific specifications:
  - (a) Rims, other than those of solid construction, shall be designed to facilitate cleaning and eliminate insect harborage;
  - (b) An internal angle formed by the intersection of surfaces at one hundred thirty-five degrees Fahrenheit (135° F.) or less, shall have a minimum continuous and smooth radius of at least one eighth inch (1/8 in.);
  - (c) All external corners and angles of refuse contact surfaces shall be sealed as smooth as the surfaces being joined, and shall be of sufficient radii to eliminate sharp edge(s) which might be an accident hazard or which might interfere with proper drainage;
  - (d) The container shall be so designed that solid waste (refuse) may be easily emptied by gravity when the container is inverted;
  - (e) All solid waste (refuse) contact surfaces shall be readily accessible and easily cleanable;
  - (f) Handles shall meet the requirements of §§805.13 and 805.14; and
  - (g) The container shall be designed and fabricated to minimize exterior gnawing edges for animals. This provision shall not apply to raised reinforcing members, decorative features, or lifting devices (handles) that do not have a common wall with the container. the Director pursuant to §804.2.

- 805.8 The cover shall be designed and fabricated to overlap the container opening and to ensure a continuous contact between the cover and the container.
- 805.9 The cover shall be designed to exclude water, with no holes through the cover over the container opening.
- 805.10 The cover shall be designed and fabricated to minimize exterior gnawing edges for animals. This provision shall not apply to raised reinforcing members, decorative features or to lifting devices (handles) that do not have a common wall with the cover.
- 805.11 The method of attachment shall be of simple design, but shall provide for positive attachment of the cover to the container. Disengagement shall also be of simple design and shall permit removal of the cover by use of one (1) hand after disengagement of the attaching device.
- 805.12 Handles or other type of lifting devices which permit the lifting and carrying of the container shall be provided on each container.
- 805.13 The design, fabrication, and attachment of the lifting devices shall be of sufficient strength to support the container when tested in accordance with §805.16, without damage to the container, cover, or other component part of the container.
- 805.14 All lifting devices and their method of attachment shall be easily cleanable.
- 805.15 Thermoplastic solid waste (refuse) containers, covers, and lifting devices shall be of sufficient material and design, and shall be fabricated to withstand the following normal use and weather conditions:
  - (a) Withstand normal cleaning and chemical sanitizing methods including sanitization with one hundred eighty degree Fahrenheit (180° F.) water;
  - (b) Resist normal impact at minus twenty degrees Fahrenheit (minus 20° F.) without failure (see §805.16 for test method);
  - (c) Withstand full loading without failure or permanent deformation (see §805.16 for test method);
  - (d) Withstand normal handling (filling and emptying) without failure or permanent deformation (see §805.16 for test method); and
  - (e) Be resistant to stress cracking resulting from exposure to use environment and conditions (see §805.17 for test method). the Director pursuant to §804.2.
- 805.16 The container and covers shall be conditioned to twenty degrees Fahrenheit (20° F.) and immediately subjected to the following impacts:
  - (a) The container shall be .loaded with five pounds (5 lbs.) of loosely bagged sand, or similar material also conditioned to twenty degrees Fahrenheit (20° F.), and then dropped on a bottom corner from a height of four feet (4 ft.). There shall be no visible evidence of failure or permanent deformation; and
  - (b) The cover shall be impacted at any location on the cover with a free falling two inch (2 in.) metal ball at twelve foot-pounds (12 ft./lb.), without failure or permanent deformation; the Director pursuant to §804.2.

- 805.17 The container shall, when uniformly loaded at a rate of fifteen pounds per cubic foot (15 lbs./ft.<sup>3</sup>), do the following:
  - (a) Withstand being lifted by one of the lifting devices (handles) provided on the container a total of at least one thousand five hundred (1,500) times at intervals of one (1) minute or more without the device or container becoming permanently deformed, the devices detached, or the devices or container otherwise failing; and
  - (b) Withstand emptying of the container with the device(s) provided on the container without the lifting and emptying device(s) or container becoming permanently deformed, the devices becoming detached, or the devices or container otherwise failing.
- 805.18 Containers and covers shall show no evidence of stress cracking when tested in the following manner:
  - (a) A one inch by six inch (1 in x 6 in.) specimen from a container selected with a weld line, if any, in the center of the six inch (6 in.) dimension has been carefully bent into a "U" shape and immersed in a one hundred fifty milliliter (150 ml.) beaker of Igepal (Igepal C0630 from General Dyestuff Corporation) at room temperature for sixteen (16) hours; and
  - (b) A one-half inch by two and one-half inch (1/2 in. x 2 1/2 in.) specimen from a cover selected with a weld line, if any, in the center of the two and one-half inch (2 1/2 in.) dimension has been carefully bent into a "U" shape and immersed in a fifty milliliter (50 ml.) beaker of Igepal at room temperature for sixteen (16) hours.
- 805.19 All approved Thermoplastic Containers distributed, sold, or used for the containment of solid waste (refuse) in the District shall contain the following printed statement on a pressure sensitive backed label affixed to the container in a conspicuous location:

This container meets all requirements of the applicable D.C. Standard (D.C. 1-4-TC) issued by the Department of Public Works. by:\_\_\_\_\_\_(Name of Manufacturer)

- 805.20 The display of the statement of approval on a thermoplastic container shall be considered to be the manufacturer's certification that the container conforms to the specifications and testing procedures prescribed in this section.
- 805.21 Each container shall have marked on it the name and address of the principal place of business of the manufacturer or distributor of the container, and a code identifying the date and location of the manufacture of the container.

SOURCE: Final Rulemaking published at 26 DCR 5221 (January 5, 1979), incorporating text of Proposed Rulemaking published at 25 DCR 359 (November 3, 1978); 5T DCRR §§10(a)-(d) (September 21, 1970).