

Designation: D 3475 - 00^{€1}

Standard Classification of Child-Resistant Packages¹

This standard is issued under the fixed designation D 3475; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

 ϵ^1 Note—The word "illustrative" was removed from the text editorially in January 2002.

1. Scope

- 1.1 This classification covers various types of child-resistant packages.
- 1.2 The examples for each type of child-resistant packaging are not intended to be all-inclusive, but are included only as an aid in the understanding and comprehension of each type of classification.
- 1.3 Listings are not to be considered endorsements or approval of the package by ASTM.

2. Terminology

- 2.1 Definitions of Terms Specific to This Standard:
- 2.1.1 child-resistant package—as defined by the Poison Prevention Packaging Act, packaging that is designed or constructed to be significantly difficult for children under five years of age to open or obtain a toxic or harmful amount of the substance contained therein within a reasonable time, and not difficult for normal adults to use properly, but does not mean packaging which all such children cannot open or obtain a toxic or harmful amount within a reasonable time.²
- 2.1.2 unit dose package—an immediate product container/package designed and labeled in such a manner that each individual product package is intended to be opened or used one time in a generally non-reclosable or non-resealable manner, separately from the other individual product units in the package, or the entire contents of a single unit package intended for use in one application.
- 2.1.2.1 *Discussion*—Normally used for pharmaceutical, human healthcare, and nutritional products in dry solid, topical, transdermal, or liquid form. A unit of sale package may contain one or more individual unit dose packages, that is, individually wrapped transdermal patches, pre-filled syringes and syringe cartridges, blister cards with multiple tablets or capsules, etc. Unit dose packages may or may not be child-resistant in

accordance with the regulatory requirements of the package contents.

- 2.1.3 unit use/single use package—an immediate product container/package, which may include label directions for use, designed in such a manner that each individual product package is intended to be opened or used one time separately from the other individual product units in the package, or the entire contents of a single unit package intended for use in one application.
- 2.1.3.1 Discussion—These packages are generally non-reclosable or non-reusable. A unit of sale package may consist of one or more non-reusable individual packages. Generally used for household, automotive, chemical, pesticide, veterinary, garden and other products not intended for human ingestion. Package styles may include some aerosol, that is, foggers, soluble film, canisters, pouches, etc., filled with liquids, drys, powders and other product forms. Packages may or may not be child-resistant in accordance with the regulatory requirements of the package contents.

3. Significance and Use

- 3.1 This classification scheme defines the type of motions, skills, or tools required for a particular type of child-resistant package and provides examples of current packaging within that type.
- 3.2 Reference to a particular package in this classification is not intended in any manner to denote endorsement or approval of the package by ASTM.
- 3.3 Packages have been included as examples based on manufacturers' claims of child-resistance. Child-resistant package functionality for any specific product type must be determined by the packager/manufacturer following the guidelines of the PPPA of 1970 and the most current version of the CFR Title 16 Part 1700 and Title 40 Part 157.² The listing of a package in this classification is not an indication of whether or not it has been successfully tested in accordance with the aforementioned guidelines.
- 3.4 Additions or deletions to the examples should be reported to Committee D10 on Packaging, for incorporation into this classification during the next revision.

¹ This classification is under the jurisdiction of ASTM Committee D10 on Packaging and is the direct responsibility of Subcommittee D10.31 on Child-Resistant Packaging.

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² Code of Federal Regulations, Title 16, Part 1700 and Title 40, Part 157. A copy may be obtained through the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.



4. Basis of Classification

4.1 The basis for classification for child-resistant closure, and the classifications themselves, appear in Table 1.

TABLE 1 Classification of Child-Resistant Packages

	Description	Example
	TYPE I RECLOSABLE PACKAGING—	CONTINUOUS THREAD CLOSURE
A	Random push down while turning; no orientation of the push down force necessary	Kerr CR-I, II, III and CRTE; Owens-Illinois Clic-Loc I, II, and III, Argus-Loc I and II and Chem-Loc; Alcoa Tot-Gard III; Van Blarcom metal-on-metal, Saf-Cap I, II, III, and IIIA; Ferdinand Gutman; Poly Seal Corp.; Reliable Products; Rexam F.G. (Final Generation), Carow-Turnloc; Comar-Secure Cap; Reike-FS652
В	Localized squeeze force while turning; the force must be applied to a designated location on the closure skirt	Rexam Squeeze-Lok, Snap-Lok, Econo-Lok, Tip Lok, DOT, Dougherty Brothers; Fastex; Owens-Illinois Squeeze and Turn, Tab-Loc; Polyseal Corp; Berry Plastics-Squeeze & turn jigger-Lite-touch; Weatherchem-Top Squeeze; Kerr-Tab II Squeeze & Turn; Ricke FS633, HZ43CR, HZ24CR; US Can-Screw top
С	Random squeeze while turning; no orientation of the squeeze force is necessary	Owens-Illinois
D	Holding a fitment while turning; two-handed operation is normally required and no orientation of holding force is specified	Thomas Closure Moldcraft; M & M Industries, IncLife Latch
E	Key or device required to open	Research and Devices; Ben King Associates Baby Safe; Tredegar
F G	Random lift while turning; no orientation of the lift force is necessary Localized lift of cap skirt or tab on closure while turning	Charles A. Breskin; Alcoa Tot Gard II
Н	Localized push down while turning; force must be applied to a designated place on the top of the closure	Mack Wayne Plastics; Anchor Hocking Mold Craft; Owens-Illinois
I.	Set combination before turning	None at this time
J K	Pull tab then turn Align arrows, then push tab down, then turn	Intermova Gate Lok, Lefty Lok Owens-Illinois Cognitive Closure
L	Turn closure until stops, then lift and continue trying to open	Berry Plastics Corppail
M	Localized push in while turning, force must be applied to designated place on closure	U S Can Company-pail
N	Localized push back lever while turning, force must be applied to designated place on closure	None at this time
0	Turn the top cap until stops, then push down and turn	M&M Industries, Inc
	TYPE II RECLOSABLE PACKAG	ING-LUG FINISH CLOSURE
Α	Random push down while turning	Eyelet Specialty; Pac-Tec IncPalm-N-Owens-Illinois Screw Loc; Kerr CR-V &
^	<u>ASTM</u>	Friendly and Safe; Thornton Plastics Tot-Lok; Child Related Research, Inc. Push-Palm; Design Consultant Plastics; Iventive Packaging Corp., Clarke
В	https://standards.iteh.ai/catalog/standards/sist/56c8t	Container Push & Turn Rexam Snap-Lok, Econo-Lok, Tip Lok; Owen-Illinois-1-Clik
С	Unlock outer ring to release lugs	Thornton Plastics
D	Depress fitment and slide to one side	Plastic box with sliding lug lock (manufacturer unknown); Creative Packaging Lok-Pak
Е	Holding of fitment while turning; two-handed operation is normally required	None at this time
	and no orientation of holding force is specified	
	and no orientation of holding force is specified TYPE III RECLOSABLE PACK	
Α		KAGING—SNAP CLOSURE Bristol-Myers; Calmar Snap Safe; Stull; Plastic Research; Henlopen Snap Cap; Lermer CR Snap; Owens-Illinois Snaploc; Central States Can Co.; Boyle Midway; Clarke Container Snap Lok; VH Technologies-virtual hinge;
Α	TYPE III RECLOSABLE PACE (1) Align two points then push up on tab or lip	KAGING—SNAP CLOSURE Bristol-Myers; Calmar Snap Safe; Stull; Plastic Research; Henlopen Snap Cap; Lermer CR Snap; Owens-Illinois Snaploc; Central States Can Co.; Boyle Midway; Clarke Container Snap Lok; VH Technologies-virtual hinge; Saf-Cap I, II, III and IIIA
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B C	TYPE III RECLOSABLE PACE (1) Align two points then push up on tab or lip (2) Rotate then lift Localized downward pressure to open Downward pressure on top with simultaneous upward pull on edges	CAGING—SNAP CLOSURE Bristol-Myers; Calmar Snap Safe; Stull; Plastic Research; Henlopen Snap Cap; Lermer CR Snap; Owens-Illinois Snaploc; Central States Can Co.; Boyle Midway; Clarke Container Snap Lok; VH Technologies-virtual hinge; Saf-Cap I, II, III and IIIA Continental Carlisle Co. Unikon; Magenta CorpPillpack Polymold; Basic Products Poly Mold Versatile Ind. Products
В	TYPE III RECLOSABLE PACE (1) Align two points then push up on tab or lip (2) Rotate then lift Localized downward pressure to open	KAGING—SNAP CLOSURE Bristol-Myers; Calmar Snap Safe; Stull; Plastic Research; Henlopen Snap Cap; Lermer CR Snap; Owens-Illinois Snaploc; Central States Can Co.; Boyle Midway; Clarke Container Snap Lok; VH Technologies-virtual hinge; Saf-Cap I, II, III and IIIA Continental Carlisle Co. Unikon; Magenta CorpPillpack Polymold; Basic Products Poly Mold Versatile Ind. Products Magenta Corp.; Lumlite PopLok; Polytop ToggLoc Dispensing Closure Wheaton Industries Ryles Closure; Owens-Illinois hood type, Magenta Corp.
B C	TYPE III RECLOSABLE PACE (1) Align two points then push up on tab or lip (2) Rotate then lift Localized downward pressure to open Downward pressure on top with simultaneous upward pull on edges (1) Press to release and then lift hinged tab (dispensing cap)	KAGING—SNAP CLOSURE Bristol-Myers; Calmar Snap Safe; Stull; Plastic Research; Henlopen Snap Cap; Lermer CR Snap; Owens-Illinois Snaploc; Central States Can Co.; Boyle Midway; Clarke Container Snap Lok; VH Technologies-virtual hinge; Saf-Cap I, II, III and IIIA Continental Carlisle Co. Unikon; Magenta CorpPillpack Polymold; Basic Products Poly Mold Versatile Ind. Products Magenta Corp.; Lumlite PopLok; Polytop ToggLoc Dispensing Closure
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