Flavored disposable e-cigarettes surged in popularity beginning in 2020, following FDA’s February 2020 policy that prioritized enforcement against flavored cartridge-based e-cigarettes. In response to data showing a significant rise in disposable products used by youth, FDA announced it would prioritize enforcement against flavored disposable e-cigarettes in September 2020. However, these products have remained widely available and disposable sales have continued to increase.

In recent years, many disposable e-cigarette manufacturers shifted to using synthetic nicotine (nicotine not derived from tobacco) to try to evade FDA regulation, but Congress closed this loophole in 2022, giving FDA regulatory authority over synthetic nicotine. As of July 13, 2022, synthetic nicotine tobacco products without an FDA marketing order are illegal. While no synthetic product has received a marketing order, FDA has taken minimal action to clear the market of these products.

Unlike the “first generation” of disposable e-cigarettes that looked like cigarettes and had limited flavors, disposable e-cigarettes are now sleek, easily concealed, pre-charged, cheaper (some for less than $5), available in a wide variety of flavors, and can even have higher nicotine concentrations than JUUL. Large-format disposable e-cigarettes that allow for thousands of “puffs” are also widely available. One study aptly described current disposables on the market as “bigger, stronger and cheaper.”

Disposables hook kids with their variety of flavors, designs, relatively low prices, high nicotine content, and concealability.

- From February 2, 2020, to June 18, 2023, disposable e-cigarette sales in tracked retail channels increased by 204.4% (4.1 million units to 12.4 million units). During this period, the market share of disposable devices increased 26.0% to 54.8% of total e-cigarette sales. As of June 2023, Elf Bar was the best-selling disposable e-cigarette and the third best-selling e-cigarette overall, after Vuse and Juul.

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* Tracked data includes mass channel and convenience stores; does not include online sales or sales from tobacco and vape shops.
The popularity of disposables has been driven primarily by candy and fruit flavors, such as iced apple mango and strawberry. As of June 2023, 78.1% of disposable sales were of flavors other than tobacco, mint and menthol.\textsuperscript{11} Disposable e-cigarettes with cooling flavors—often marketed as ice, cool, chill, freeze, or frost and often in combination with fruit flavors—have also increased (e.g., Blueberry Ice, Peach Freeze).\textsuperscript{12} A study in California found that participating young adults who reported using ice flavors were more likely to use disposables than other types of e-cigarette devices, including pod/cartridge products.\textsuperscript{13} Disposable e-cigarettes are loaded with nicotine. Between January 2017 and September 2022, the average nicotine strength of disposable e-cigarettes increased 294%, from 1.7% to 5%. As of September 2022, nearly all disposable products sold (95.5%) had 5% (the same as JUUL) or higher nicotine strength.\textsuperscript{14} Newer disposables can hold a higher volume of e-liquid, and with higher nicotine concentrations, a single disposable device can contain more nicotine than several packs of cigarettes. Between January 2017 and September 2022, average volume capacity of disposable e-cigarettes increased 518%, from 1.1 mL to 5.7mL. By September 2022, high-capacity devices (>6 mL) accounted for 35.7% of dollar sales among disposable e-cigarettes.\textsuperscript{15} In comparison, a single JUULpod only contains 0.7 mL of liquid. At the same time that disposable e-cigarettes have increased in nicotine strength and size, they have decreased threefold in price per milliliter of e-liquid.\textsuperscript{16} This makes these new high nicotine, high volume e-cigarettes particularly appealing for price-sensitive youth. They are relatively small and portable and their sleek designs make them easy to conceal. Companies are marketing these products as accessible and easy to use. Ready to use right out of the box, manufacturers tout the instant flavor hit and encourage users to try a variety of flavors.

FDA’s February 2020 e-cigarette policy left kid-friendly, flavored disposable e-cigarettes on the market and widely available.

- FDA’s policy removed flavored, cartridge-based products from the market, but explicitly excluded disposable e-cigarettes ("An example of products that would not be captured by this definition include completely self-contained, disposable products").\textsuperscript{17} As previously noted, despite FDA’s announcement that it would prioritize enforcement against flavored disposable e-cigarettes, these products remain widely available.
- Some manufacturers shifted to making disposable e-cigarettes in the same flavors as the pre-filled pods they used to make.
- FDA’s deficient policy fueled the sales of flavored disposable e-cigarettes. A May 2020 industry analyst report noted, "We expect brands in the disposable e-cig segment to continue to gain share as long as they are not covered by the FDA’s restriction on non-tobacco/non-menthol flavor variants."\textsuperscript{18}
- A convenience store employee similarly attributed the explosion of disposable products to FDA’s policy, "These products for the most part didn’t exist at retail in any consistent manner a year ago," says Kraig Knudsen, tobacco category manager at Circle K’s Heartland Division, Lisle, Ill. “All those companies said, ‘Here’s a loophole. I’m going to just create a disposable, have any kind of flavor I want and sell a boatload of them.’ It’s worked for them.”\textsuperscript{19}
- Likely the most widely known disposable e-cigarette brand, Puff Bar, skyrocketed in popularity following FDA’s February 2020 policy and spurred copycats in an innumerable array of flavors.\textsuperscript{20} The brand reached more than $170 million in sales in 2020,\textsuperscript{21} and by mid-June 2020, industry analysts declared Puff Bar as one of the “biggest winners in disposables.”\textsuperscript{22} After FDA sent Puff Bar a warning letter in 2020, the company switched to using synthetic nicotine in its products to try to evade regulation because at that time, FDA did not have the authority to regulate synthetic nicotine. By December 2022, after FDA started regulating synthetic nicotine products, Puff Bar was claiming to only sell non-nicotine e-cigarettes.\textsuperscript{23}


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