

BD disposable general use syringes

Technical data sheet

General information

Materials

Barrels, plunger rods, tip shields.....polypropylene*
Stoppers.....synthetic elastomer
Lubricant.....silicone

*BD Luer-Lok™ 1 mL syringe has polycarbonate in the barrel. Bisphenol A (BPA) is an organic compound that is a chemical building block for polycarbonate. Based on our information, the BPA is below a de minimis concentration, with no demonstrable concentration clinically significant exposure or toxicity.

Method of sterilization

Gamma, electron beam, or ethylene oxide gas

Volumetric accuracy

Complies with ISO 7886-1

Print*

Permanent-type black ink

*Resistant to 70% isopropyl alcohol

Pressure rating

Syringes < 20 mL will withstand 43.5 psi of water for 30 seconds
(ISO 7886-1, ISO 594-1)

Syringes > 20 mL will withstand 29.0 psi of water for 30 seconds
(ISO 7886-1, ISO 594-1)

BD general content information

- BD syringes and syringe needle products are not formulated with natural rubber latex.
- Based upon the review of raw materials used in this product, no potential exposures to any California Proposition 65 listed chemicals are projected to occur at a level that poses a "significant risk" as defined in the law. No labeling for California Prop 65 is needed.
- BD syringes are not made with DEHP.
- BD syringes, with the exception of the 1 mL BD Luer-Lok offering noted above, are not made with BPA.
- BD syringes are not made with BSE or TSE content.†

† The raw materials used in the manufacture of these devices do not contain any animal tissue but may contain very small amounts of animal derived raw materials. These products are manufactured using polymer resins which may contain very small amounts of surfactants or fatty acids derived from tallow. Our resin suppliers have confirmed that these tallow derived materials have been produced using multiple cycles of conditions at least as rigorous (and normally more rigorous) as those specified in Annex C.5 of EN ISO 22442-1. Therefore, the raw materials meet or exceed the requirements of EN ISO 22442-1. Based upon this information, these products are considered not to present any risk with respect to TSE or other animal borne diseases.

Tip dimensions

Inner diameter

0.047 in/1.2 mm minimum (ISO 7886-1)

Outer diameter

0.155 in–0.159 in/3.925 mm–4.027 mm
6% taper tip (ANSI/ISO, ISO 594-1 and 2)

Length

0.295 in/7.5 mm minimum (ISO 594-1 and 2)

Thread

Double start, right hand, 5 mm lead (ISO 594-2)

Internal diameter between threads..... 0.311 in–0.319 in/7.9 mm–8.1 mm

Internal diameter at threads..... 0.268 in–0.283 in/6.8 mm–7.2 mm

Unit packaging

BD 1 mL to 10 mL syringes have a paper-based top web and a co-extruded film bottom web. These products are not formulated with natural rubber latex.

BD 20 mL to 60 mL syringes have a co-extruded film top web and co-extruded film bottom web. These products are not formulated with natural rubber latex.

BD tests for ink permanency following USP 797 wipe down recommendations.

Standard information

All syringes meet or exceed the following standards:*

ISO 7886-1—sterile hypodermic syringes for single use

ISO 594-1 and -2—conical fittings with 6% luer taper for syringes

*ISO 7886-2 dimensions for use in syringe pumps are available by contacting BD. Prior to use with syringe pumps, obtain a list of validated syringe manufacturers and syringe sizes from your syringe pump supplier.

Scale markings	Major grad. (each)	Minor grad. (each)	Waste space (maximum volume, without needle)
1 mL	1/10 mL	1/100 mL	0.07 mL
1 mL insulin u-100	10 units	2 units	0.07 mL
3 mL	1/2 mL	1/10 mL	0.07 mL
5 mL	1 mL	1/5 mL	0.075 mL
10 mL	1 mL	1/5 mL	0.10 mL
20 mL	5 mL	1 mL	0.15 mL
30 mL	5 mL	1 mL	0.17 mL
60 mL	10 mL	1 mL	0.20 mL