

## 50ml Glass Syringe with metal luer lock



Tomopal Part #	140-4550
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<b>Piston Outside Diameter:</b>	27.45 mm ± 0.20 mm
<b>D1) Barrel Diameter Outside:</b>	32.35 mm ± 0.55 mm
<b>D2) Barrel Collar Diameter:</b>	44.00 mm ± 0.75 mm
<b>D3) Piston Collar Diameter:</b>	34.05 mm ± 0.65 mm
<b>L) Length:</b>	178.00 mm ± 0.50 mm
<b>Increment:</b>	2.0 ml
<b>Volume:</b>	50.0 ml ± 1.5% of volume

### Features:

- The syringe is made from heat resistant borosilicate glass.
- The material and construction is resistant to breakage from shock and sudden temperature changes.
- It is annealed and tested until free of internal strain, to withstand repeated washing with hot water.
- Reinforced at luer lock tip and barrel base, the points at which most breakage occurs.
- The cylinder-plunger fit is leak proof and meets the requirements of Federal Specification GG -S- 921b.
- Plunger is individually ground and fitted to barrel for smooth movement with no back flow.
- Barrel rim is flat on both sides to prevent rolling and is wide enough for convenient finger tip grip.
- The syringes are available in custom fit design. The custom fit syringes are uniquely numbered for matching piston and barrel.
- The metal luer lock tip meets the specification of American National Standards for Medical Materials luer taper fitting performance, HIMA MD 70.1 - 1983.
- The metal luer lock fitting is made from chrome-plated brass and fits all female luer lock fittings.
- The syringe is clearly marked with graduations of 1.0 ml and 10.0 ml. The graduations are permanently fused for lifetime legibility.

### Glass Properties:

<b>Expansion coefficient:</b>	52 +/- 10 <sup>-7</sup> / Centigrade
<b>Density:</b>	2.36g +/- 0.03g CM <sup>3</sup>
<b>Modulus of elasticity:</b>	64 +/- 10 <sup>3</sup> mm <sup>-2</sup>
<b>Water resistance:</b>	First Class
<b>Acid resistance:</b>	First Class
<b>Alkali resistance:</b>	First Class

<b>Softening point:</b>	785 @ degrees centigrade
<b>Melting temperature:</b>	1260 @ degrees centigrade
<b>Strain point:</b>	525 @ degrees centigrade
<b>Annealing point:</b>	570 @ degrees centigrade
<b>Hardness:</b>	7
<b>Color:</b>	Clear