

Corning® Reusable Plastic Ware

Products for Liquid Handling, Measurement and Storage

CORNING





Corning® Reusable Plastic

Introduction

Corning is pleased to introduce a new line of reusable plastic liquid handling products and volumetric ware. Complementary to the PYREX® liquid handling and volumetric line, this range of products features:

- ▶ Erlenmeyer flasks manufactured from Polypropylene (PP) and Polymethylpentene (PMP)
- ▶ Funnels in PP
- ▶ Reagent bottles in PP
- ▶ Wash bottles in low density polyethylene (LDPE) with PP caps
- ▶ Beakers available in polypropylene (PP) and Perfluoroalkoxy-copolymer (PFA)
- ▶ Beakers with handles in PP
- ▶ Graduated cylinders available in PP
- ▶ Volumetric flasks in PP, PFA and PMP
- ▶ Graduated cylinders and volumetric flasks manufactured to the following specifications:
 - Volumetric flasks Class A and B DIN EN ISO 1042
 - Graduated cylinders Class B calibrated To Contain (TC) according to DIN 12681/ISO 6706

It is important to recognize the difference in specifications regarding DIN and ASTM standards. For reference, ASTM Class A and B specifications are more precise than DIN Class A and B specifications, respectively.

Volumetric Ware

The accuracy of volumetric ware depends on the care used in calibrating it, using the correct type of ware for the application, handling the ware properly and ensuring the ware is clean. Calibration of volumetric ware is usually done at 20°C, and the ware should be used at approximately this temperature. Refrigerated liquids should be allowed to come to room temperature before measuring them. Under normal use and care, the calibration of volumetric ware will not change. Do not expose volumetric ware to excessive heat, defined as temperatures approaching the Corning-defined upper service limit. The polymers from which the Corning line is manufactured have unique thermal characteristics. Each polymer temperature capability is described in the text below.

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Corning® Low Form Beakers, PP

Translucent polypropylene beakers printed with blue graduations.



Cat. No.	Capacity (mL)	Graduation Interval (mL)	Approx. O.D. x Height (mm)	Qty/Cs
1000P-25	25	5	32 x 47	24
1000P-50	50	10	41 x 60	12
1000P-100	100	20	50 x 71	12
1000P-150	150	20	56 x 80	12
1000P-250	250	50	67 x 94	6
1000P-400	400	100	77 x 109	6
1000P-600	600	100	89 x 125	6
1000P-1L	1000	100	106 x 148	6
1000P-2L	2000	200	132 x 185	6
1000P-3L	3000	500	156 x 210	4
1000P-5L	5000	500	181 x 247	4



Corning Low Form Beakers, PFA

These beakers are translucent with a raised graduation scale. They feature high temperature and chemical resistance.

Cat. No.	Capacity (mL)	Graduation Interval (mL)	Approx. O.D. x Height (mm)	Qty/Cs
1003P-25	25	5	32 x 50	12
1003P-50	50	10	39 x 59	12
1003P-100	100	20	51 x 72	12
1003P-250	250	50	67 x 95	6
1003P-500	500	100	82 x 120	6
1003P-1L	1000	100	104 x 140	6



Corning Graduated Beakers with Handle and Spout, PP

Translucent polypropylene beakers printed with blue graduations.

Cat. No.	Capacity (mL)	Graduation Interval (mL)	Approx. O.D. x Height (mm)	Qty/Cs
1015P-250	250	5	77 x 115	12
1015P-500	500	10	95 x 136	12
1015P-1L	1000	10	125 x 167	12
1015P-2L	2000	20	152 x 217	8
1015P-3L	3000	50	170 x 243	6



Corning Wash Bottles, LDPE/PP Caps

These bottles are manufactured from low density polyethylene and are offered with a narrow or wide-mouth. The cap and dispensing tube are manufactured from PP to optimize backflow of the solution. The design allows minimal turbulence of the liquid in the bottle.

Cat. No.	Volume (mL)	Thread GL	Height (mm)	Diameter (mm)	Qty/Cs
1300P-250	250	25	135	58	12
1300P-250W	250	45	146	58	12
1300P-500	500	25	180	74	12
1300P-500W	500	45	166	76	12
1300P-1L	1000	32	221	92	12
1300P-1LW	1000	63	226	91	12



Corning® Reagent Bottles, PP

These bottles are manufactured from translucent polypropylene. They are wide-mouth and supplied with PP screw top caps.

Cat. No.	Volume (mL)	Thread GL	Height (mm)	Diameter (mm)	Qty/Cs
1500P-250	250	45	132	73	20
1500P-500	500	45	172	87	10
1500P-1L	1000	63	204	108	10
1500P-2L	2000	63	243	131	6



Corning Single Metric Scale, Graduated Cylinder, PP, TC with Funnel Top

Translucent polypropylene graduated cylinders are manufactured with raised graduations at the primary scale points. Cylinders have a hexagonal base and are calibrated “To Contain” (TC). Tolerances according to ISO 6706. Exposure to temperatures above 60°C may affect accuracy.

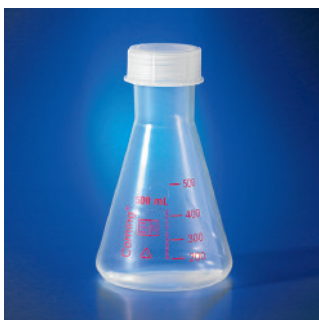
Cat. No.	Capacity (mL)	Tolerance ± (mL)	Graduation Interval (mL)	Approx. O.D. x Height (mm)	Qty/Cs
3022P-10	10	0.20	0.20	14 x 145	12
3022P-25	25	0.50	0.50	20 x 170	12
3022P-50	50	1.00	1.00	26 x 200	12
3022P-100	100	1.00	1.00	31 x 250	12
3022P-250	250	2.00	2.00	42 x 315	6
3022P-500	500	5.00	5.00	54 x 360	6
3022P-1L	1000	10.00	10.00	65 x 440	6
3022P-2L	2000	20.00	20.00	84 x 482	3



Corning Erlenmeyer Flasks, PP

Translucent polypropylene flasks are manufactured with blue graduations for reference. The flasks have a screw neck and are supplied with a PP cap.

Cat. No.	Capacity (mL)	Graduation (mL)	Thread GL	Qty/Cs
4985P-50	50	10	40	6
4985P-100	100	20	40	6
4985P-250	250	50	52	6
4985P-500	500	100	52	6
4985P-1L	1000	200	52	4



Corning Erlenmeyer Flasks, PMP

Translucent polymethylpentene flasks are manufactured with red graduations for reference. The flasks have a screw neck and are supplied with a PP cap.

Cat. No.	Capacity (mL)	Graduation (mL)	Thread GL	Qty/Cs
4990P-50	50	10	40	6
4990P-100	100	20	40	6
4990P-250	250	50	52	6
4990P-500	500	100	52	6
4990P-1L	1000	200	52	4



Corning® Volumetric Flasks, PMP, Class A

Translucent flask is supplied with tapered polypropylene stopper with an individually calibrated graduation line. The product is manufactured to Class A tolerances as defined by ISO 1042. They are supplied with an imprinted lot number and certificate. These flasks may be autoclaved to 121°C without affecting the graduation tolerance. Recommended routine cleaning up to 60°C will preserve graduation markings. Height dimension is for flask only, without stopper.

Cat. No.	Capacity (mL)	Tolerance ± (mL)	Approx. O.D. x Height (mm)	Tapered Stopper	Qty/Cs
5640P-10	10	0.04	33 x 90	10/19	6
5640P-25	25	0.04	41 x 108	10/19	6
5640P-50	50	0.06	51 x 140	12/21	6
5640P-100	100	0.10	64 x 170	14/23	6
5640P-250	250	0.15	84 x 225	19/26	5
5640P-500	500	0.25	104 x 260	19/26	4
5640P-1L	1000	0.40	127 x 300	24/29	3



Corning Volumetric Flasks, PP, Class B

Translucent flask is supplied with tapered polypropylene stopper with an individually calibrated graduation line. The product is manufactured to Class B tolerances as defined by ISO 1042. Exposure to temperatures above 60°C may affect accuracy. Recommended routine cleaning up to 60°C will preserve graduations. Height dimension is for flask only, without stopper.

Cat. No.	Capacity (mL)	Tolerance ± (mL)	Approx. O.D. x Height (mm)	Tapered Stopper	Qty/Cs
5641P-10	10	0.08	33 x 90	10/19	6
5641P-25	25	0.08	41 x 108	10/19	6
5641P-50	50	0.12	51 x 140	12/21	6
5641P-100	100	0.20	64 x 170	14/23	6
5641P-250	250	0.30	84 x 225	19/26	5
5641P-500	500	0.50	104 x 260	19/26	4
5641P-1L	1000	0.80	127 x 300	24/29	3



Corning Volumetric Flasks, PFA, Class A

Translucent flask is supplied with a PFA screw cap. Screw caps provide hermetic seals and help reduce the possibility of outside contamination. The product is manufactured to Class A tolerances as defined by ISO 1042 and flasks have individually calibrated graduation lines. They withstand high temperatures and are resistant to a variety of aqueous solutions and organic solvents. These flasks may be autoclaved to 121°C without affecting the graduation tolerance. Recommended routine cleaning up to 60°C will preserve graduations. Height dimension is flask only, without screw cap.

Cat. No.	Capacity (mL)	Tolerance ± (mL)	Approx. O.D. x Height (mm)	Screw Cap	Qty/Cs
5650P-10	10	0.04	33 x 90	GL-18	6
5650P-25	25	0.04	41 x 108	GL-18	6
5650P-50	50	0.06	49 x 143	GL-18	6
5650P-100	100	0.10	63 x 165	GL-18	6
5650P-250	250	0.15	83 x 220	GL-25	5
5650P-500	500	0.25	103 x 255	GL-25	4



Corning Funnel, PP

Durable polypropylene funnels are translucent and allow safe and easy transfers of solids or liquids from one vessel to another.

Cat. No.	Diameter (mm)	Length (mm)	Stem Diameter (mm)	Stem Length (mm)	Qty/Cs
6120P-30	30	45	1.5	25	24
6120P-40	40	65	4	35	24
6120P-50	50	85	7	43	24
6120P-75	75	110	6	55	12
6120P-100	100	155	8	77	12
6120P-120	120	180	11	90	12
6120P-150	150	220	15	95	12

Chemical Compatibility

	LDPE	PP	PMP	PFA
Acids				
Hydrochloric acid (25%)	G	G	G	G
Hydrochloric acid concentrated	G	G	G	G
Nitric acid concentrated	P	P	F	G
Nitric Acid (25%)	F	F	F	G
Alcohols				
Butanol	G	G	G	G
Ethanol	G	G	G	G
Methanol	G	G	G	G
Amines				
Aniline	G	G	G	G
Dimethylformamide	G	G	G	G
Bases				
Ammonium hydroxide (25%)	G	G	G	G
Ammonium hydroxide 1N	G	G	G	G
Sodium hydroxide	G	G	G	G
Hydrocarbons				
Hexane	F	G	F	G
Toluene	F	F	G	G
Xylene	F	P	F	G
Dioxane	G	G	F	G
Dimethylsulfoxide (DMSO)	G	G	G	G
Halogenated Hydrocarbons				
Chloroform	P	P	F	G
Methylene chloride	F	F	P	G
Ketones				
Acetone	G	G	G	G
Methyl ethyl diketone	F	G	P	G

G - good, F = Fair, P = poor



Corning offers PYREX storage bottles in a wide variety of sizes, shapes and styles to meet all of your storage needs.

Corning® Storage Bottles

Corning offers a wide variety of glass and plastic screw cap bottles designed to meet all of your storage needs. The following table shows the major differences between Corning's glass and plastic storage bottles.

PYREX® and PYREXPLUS® Glass Bottles

Reusable: easy to clean and sterilize; very durable for long life

Excellent chemical resistance: good for acids, alkalis and solvents but also media and aqueous solutions

Excellent temperature resistance: bottles can be repeatedly sterilized

Nine sizes: 25 mL to 10L

Catalog number series: 1395, 1396, 1397, 51395 and 61626

Corning and Costar® Plastic Bottles

Disposable: Sterile and ready to use; very convenient, no washing or clean up required

Lower chemical resistance: good for media and aqueous solutions

Lower temperature resistance: only polycarbonate bottles can be autoclaved

Five sizes: 125 mL to 1L

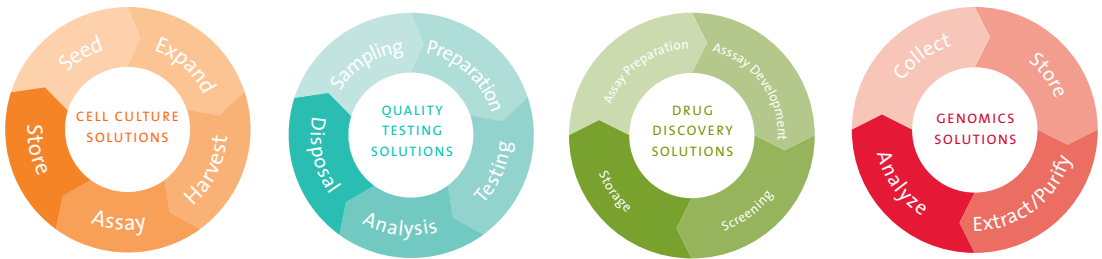
Catalog numbers: 431430, 431431, 431432, 431433, 431175, 430281, 430282, 430518, 8388, 8390, 8393 and 8396

Beginning-to-end Solutions

At Corning, we continuously strive towards improving efficiencies and developing new products and technologies for life science researchers. We have scientists working in Corning R&D labs across the globe, doing what you do every day. Our technical experts understand your challenges and your increased need for high-quality products.

It is this expertise, plus a 160 year legacy of Corning innovation and manufacturing excellence, that puts us in a unique position to be able to offer a beginning-to-end portfolio of high-quality, reliable life sciences consumables.

Detailed product information and a complete Technical Library including Application Notes, Protocols and Bibliographies are available from our website www.corning.com/lifesciences.



For additional product or technical information, please visit www.corning.com/lifesciences or call 1.800.492.1110. Customers outside the United States, please call +1.978.442.2200 or contact your local Corning sales office listed below.

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