

# Diamond RealSeal™



**NEW!**

# Carboys



**Diamond RealSeal™ Plastic Carboys** from Globe Scientific meet the large volume liquid storage and dispensing needs of the most demanding laboratory applications. Rugged and durable, Diamond RealSeal Carboys are the safe, shatterproof alternative to glass for mixing, storing, and dispensing liquids in volumes from five to fifty liters. The carboys are available in a wide range of materials and designs suitable for use with most media, reagents, and solutions used in laboratories across the world.

Like the Diamond RealSeal laboratory bottle line, Diamond RealSeal Carboys are precision molded from virgin resins for consistent wall thickness and smooth interior and exterior surfaces. The carboys include leak-proof polypropylene caps that are engineered with an integrated seal ring for leak-proof closure.

# Round Carboys

- Round design maximizes mixing efficiency
- Integrated wide handles facilitate easy carrying and pouring, even when wearing gloves
- Easy to read, molded graduations

## Low-Density Polyethylene (LDPE)

- LDPE maintains flexibility and shatterproof safety down to -75°C

Item #	Capacity	Closure Size	Neck I.D.	Bottle O.D.	Height w/Cap	Units
7250010	10L	83mm	65mm	249mm	390mm	EA & 6
7250020	20L	83mm	65mm	285mm	535mm	EA & 4
7250050	50L	83mm	65mm	376mm	682mm	EA

## Polypropylene (PP)

- PP carboys are autoclavable at 121°C and have the best chemical resistance

Item #	Capacity	Closure Size	Neck I.D.	Bottle O.D.	Height w/Cap	Units
7200010	10L	83mm	65mm	249mm	390mm	EA & 6
7200020	20L	83mm	65mm	285mm	535mm	EA & 4
7200050	50L	83mm	65mm	376mm	682mm	EA

## Amber High-Density Polyethylene (HDPE)

- Reduce UV Light transmission to protect light sensitive contents during storage and transport
- Comply with US Pharmacopeia requirements for maximum light transmission

Item #	Capacity	Closure Size	Neck I.D.	Bottle O.D.	Height w/Cap	Units
7240010AM	10L	83mm	65mm	249mm	390mm	EA & 6
7240020AM	20L	83mm	65mm	285mm	535mm	EA & 4



# Round Carboys with Spigot

- Spigot allows simple and accurate dispensing of media and solutions
- Round design maximizes mixing efficiency
- Integrated wide handles facilitate easy carrying and pouring, even when wearing gloves
- Easy to read, molded graduations

## Polypropylene (PP)

- PP carboys are autoclavable at 121°C and have the best chemical resistance

Item #	Capacity	Closure Size	Neck I.D.	Bottle O.D.	Height w/Cap	Units
7220010	10L	83mm	65mm	249mm	390mm	EA & 6
7220020	20L	83mm	65mm	285mm	535mm	EA & 4
7220050	50L	83mm	65mm	376mm	682mm	EA

## Low-Density Polyethylene (LDPE)

- LDPE maintains flexibility and shatterproof safety down to -75°C

Item #	Capacity	Closure Size	Neck I.D.	Bottle O.D.	Height w/Cap	Units
7270010	10L	83mm	65mm	249mm	390mm	EA & 6
7270020	20L	83mm	65mm	285mm	535mm	EA & 4
7270050	50L	83mm	65mm	376mm	682mm	EA



# Wide Mouth Carboys

- Wide 100mm mouth for use with solids, powders, and overhead mixing equipment
- Integrated wide handles facilitate easy carrying and pouring, even when wearing gloves
- Easy to read, molded graduations

## Polypropylene (PP)

- PP carboys are autoclavable at 121°C and have the best chemical resistance

Item #	Capacity	Closure Size	Neck I.D.	Bottle O.D.	Height w/Cap	Units
7210010	10L	100mm	95mm	249mm	390mm	EA & 6
7210020	20L	100mm	95mm	285mm	535mm	EA & 4

## Low-Density Polyethylene (LDPE)

- LDPE maintains flexibility and shatterproof safety down to -75°C

Item #	Capacity	Closure Size	Neck I.D.	Bottle O.D.	Height w/Cap	Units
7260010	10L	100mm	95mm	249mm	390mm	EA & 6
7260020	20L	100mm	95mm	285mm	535mm	EA & 4



## The Diamond RealSeal™ Difference:

### Medical Grade Resins to Meet Demanding Requirements

- USP Class VI for pharma and research applications
- FDA CFR-21 compliant for food contact
- Free of heavy metals and RoHS compliant
- BPA and phthalate free

### Precision Molded for Consistent Wall Thickness and Smooth Surfaces

- Improves bottle and seal integrity
- Reduces content “hang-up”
- Manufactured in an ISO 13485 and ISO 9001 certified facility

### Leakproof, Linerless Caps for Secure Closure

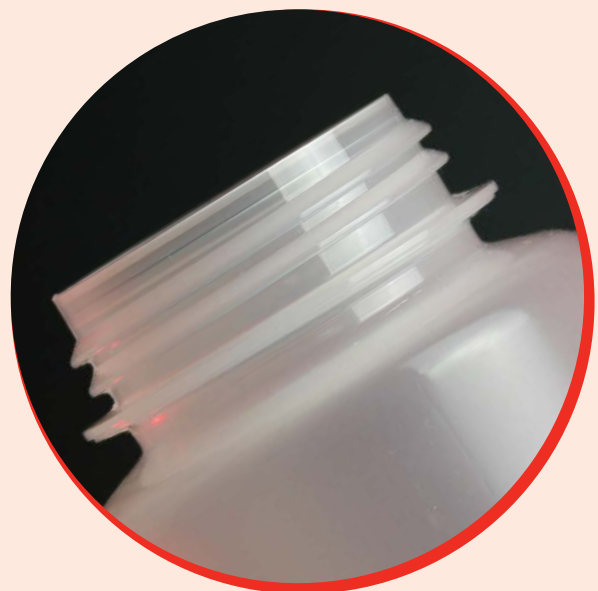
- Integrated seal ring molded in cap to prevent leaks
- Linerless cap design to reduce contamination risks associated with liners: wrinkles, tears, wear, corrosion, reaction and leakage

### Value

- Laboratory bottle quality and performance with savings associated with “economy” bottles
- Reduced shipping costs compared to glass bottles

### Safety/Convenience

- Safe, shatter-resistant alternative to glass bottles
- Lighter than glass for improved handling



*Diamond RealSeal™ carboys and caps are designed with semi-buttressed threads for superior performance compared to round threads found on inferior carboys.*

# Heavy Duty Carboys

- Thick walls provide added strength and extra durability
- Holds full vacuum up to 8 hours
- Round design maximizes mixing efficiency
- Integrated wide handles facilitate easy carrying and pouring, even when wearing gloves
- Easy to read, molded graduations

## Polypropylene (PP)

- Autoclavable at 121°C

Item #	Capacity	Closure Size	Neck I.D.	Bottle O.D.	Height w/Cap	Units
7240010	10L	83mm	65mm	249mm	390mm	EA & 6
7240020	20L	83mm	65mm	285mm	535mm	EA & 4



# Rectangular Carboys with Spigot

- Rectangular design maximizes storage efficiency
- Spigot allows simple and accurate dispensing of media and solutions
- Integrated stainless steel handle for easy carrying and pouring
- Easy to read, molded graduations

## High-Density Polyethylene (HDPE)

- HDPE is safe for freezer storage down to -100°C

Item #	Capacity	Closure Size	Neck I.D.	Bottle Dimensions	Height w/Cap	Units
7310005	5L	100mm	86mm	227mm x 144mm	342mm	EA & 6
7310010	10L	100mm	86mm	284mm x 176mm	400mm	EA & 6
7310020	20L	100mm	86mm	342mm x 207mm	492mm	EA & 4

## Polypropylene (PP)

- PP carboys are autoclavable at 121°C and have the best chemical resistance

Item #	Capacity	Closure Size	Neck I.D.	Bottle Dimensions	Height w/Cap	Units
7300005	5L	100mm	86mm	227mm x 144mm	342mm	EA & 6
7300010	10L	100mm	86mm	284mm x 176mm	400mm	EA & 6
7300020	20L	100mm	86mm	342mm x 207mm	492mm	EA & 4



## Diamond RealSeal™ Leak Testing Protocol

**Leak testing and "Leak proof" designation for bottles and carboys above 1000mL:**

- Bottles are filled to 80% of nominal capacity, closed per minimum torque requirements
- Bottles are inverted and inspected for leakage
- Bottles are partially inverted with water in contact with closure for 24 hours and are inspected for leakage

Standard leak testing of Diamond RealSeal™ bottles is performed with water. Testing with other liquids may yield different results.



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