



Leakage Testing
by Vacuum Method for
Plastic Bottles upto
2000ml

Test Procedure:

1. Fill the bottles with water upto 80% of its brim volume and secure tightly with closure by hand.
2. Invert the bottle and visually check for any leakage. Keep the inverted bottles in a Vacuum Desiccator and evacuate to 25" or 635 mm Hg pressure.
3. Keep the Bottle for 3 - 5 mins in Vacuum Desiccator at 25" or 635 mm for Hg.
4. Release vacuum, and check the bottles for any leakage.
5. Open the closure and check for any trace of water on the threads of bottle or closure.
6. If no leakage is observed in the testing, the bottles are certified leak proof.

Leakage Testing
by Gravity Method for
Plastic Bottles above
2000ml

Test Procedure:

1. Fill the bottles with water upto 80% of its brim volume and secure tightly the closure by hand.
2. Invert the bottle and visually check for any leakage.
3. Leave the bottle for 24 hrs in inverted condition.
4. After 24 hours, check bottle for any leakage.
5. Open the closure and check for any trace of water on the threads of bottle or closure.
6. If no leakage is observed in the testing, the bottles are certified leak proof.

Round Bottles and Carboys

Nominal Capacity	Description	Catalog Number	Approx. Brim Cap.ml	Material	Color	Screw Closure Size.mm	I.D. Neck, mm	O.D. Bottle, mm	Hgt. W/Closure, mm
4 ml	Bottle, NM	T582070	4.3	PP	Natural	13	8.3	16	41
	Bottle, NM	T583170	4.3	HDPE	Natural	13	8.3	16	41
	Bottle, NM	T581170	4.3	HDPE	Amber	13	8.3	16	41
8 ml	Bottle, NM	T582080	12	PP	Natural	20	13	25	44
	Bottle, NM	T586080	12	LDPE	Natural	20	13	25	44
	Bottle, NM	T583180	12	HDPE	Natural	20	13	25	44
	Bottle, NM	T581180	12	HDPE	Amber	20	13	25	44
15 ml	Bottle, NM	T582090	18	PP	Natural	20	13.3	25	58
	Bottle, NM	T586090	18	LDPE	Natural	20	13.3	25	58
	Bottle, NM	T583190	18	HDPE	Natural	20	13	25	58
	Bottle, NM	T581190	18	HDPE	Amber	20	13.3	25	58
30 ml	Bottle, NM	T582100	34	PP	Natural	20	13.5	36	62
	Bottle, NM	T586200	34	LDPE	Natural	20	13.5	36	62
	Bottle, NM	T583100	34	HDPE	Natural	20	13.5	36	62
	Bottle, NM	T581200	34	HDPE	Amber	20	13.5	36	62
	Bottle, WM	T582220	35	PP	Natural	28	21.5	36.5	62.5
	Bottle, WM	T585200	35	LDPE	Natural	28	21.5	36.5	62.5
	Bottle, WM	T584200	35	HDPE	Natural	28	21.5	36.5	62.5
	Bottle, WM	T581300	35	HDPE	Amber	28	21.5	36.5	62.5

Round Bottles and Carboys

Nominal Capacity	Description	Catalog Number	Approx. Brim Cap.ml	Material	Color	Screw Closure Size.mm	I.D. Neck, mm	O.D. Bottle, mm	Hgt. W/Closure, mm
60 ml	Bottle, NM	T582110	65	PP	Natural	20	14.5	40.5	85
	Bottle, NM	T586210	65	LDPE	Natural	20	14.5	40.5	85
	Bottle, NM	T583110	65	HDPE	Natural	20	14.5	40.5	85
	Bottle, NM	T581210	65	HDPE	Amber	20	14.5	40.5	85
	Bottle, WM	T582210	65	PP	Natural	28	21.5	38.5	85
	Bottle, WM	T585210	65	LDPE	Natural	28	21.5	38.5	85
	Bottle, WM	T584210	65	HDPE	Natural	28	21.5	38.5	85
	Bottle, WM	T581310	65	HDPE	Amber	28	21.5	38.5	85
125 ml	Bottle, NM	T582120	140	PP	Natural	24	17.5	51	99
	Bottle, NM	T586220	140	LDPE	Natural	24	17.5	51	99
	Bottle, NM	T583120	140	HDPE	Natural	24	17.5	51	99
	Bottle, NM	T581220	140	HDPE	Amber	24	17.5	51	99
	Bottle, WM	T582220	140	PP	Natural	38	28.5	50.5	99
	Bottle, WM	T585220	140	LDPE	Natural	38	28.5	50.5	99
	Bottle, WM	T584220	140	HDPE	Natural	38	28.5	50.5	99
	Bottle, WM	T581320	140	HDPE	Amber	38	28.5	50.5	99
250 ml	Bottle, NM	T582130	285	PP	Natural	24	17.5	61	133
	Bottle, NM	T586230	285	LDPE	Natural	24	17.5	61	133
	Bottle, NM	T583130	285	HDPE	Natural	24	17.5	61	133
	Bottle, NM	T581230	285	HDPE	Amber	24	17.5	61	133
	Bottle, WM	T582230	290	PP	Natural	43	33	61.5	133
	Bottle, WM	T585230	290	LDPE	Natural	43	33	61.5	133
	Bottle, WM	T584230	290	HDPE	Natural	43	33	61.5	133
	Bottle, WM	T581330	290	HDPE	Amber	43	33	61.5	133
500 ml	Bottle, NM	T582140	525	PP	Natural	28	21.3	73	170
	Bottle, NM	T586240	525	LDPE	Natural	28	21.3	73	170
	Bottle, NM	T583140	525	HDPE	Natural	28	21.3	73	170
	Bottle, NM	T581240	525	HDPE	Amber	28	21.3	73	170
	Bottle, NM	T582141	577	PP	Natural	38	28	75	182
	Bottle, WM	T582240	550	PP	Natural	53	43.5	72.5	170
	Bottle, WM	T585240	550	LDPE	Natural	53	43.5	72.5	170
	Bottle, WM	T584240	550	HDPE	Natural	53	43.5	72.5	170
	Bottle, WM	T581340	550	HDPE	Amber	53	43.5	72.5	170
1 Litre	Bottle, NM	T582150	1060	PP	Natural	38	28	92	216
	Bottle, NM	T586250	1060	LDPE	Natural	38	28	92	216
	Bottle, NM	T583150	1060	HDPE	Natural	38	28	92	216
	Bottle, NM	T581250	1060	HDPE	Amber	38	28	92	216
	Bottle, WM	T582250	1030	PP	Natural	63	53	91.5	199
	Bottle, WM	T585260	1030	LDPE	Natural	63	53	91.5	199
	Bottle, WM	T584260	1030	HDPE	Natural	63	53	91.5	199
	Bottle, WM	T581360	1030	HDPE	Amber	63	53	91.5	199















Round Bottles and Carboys

Nominal Capacity	Description	Catalog Number	Approx. Brim Cap.ml	Material	Color	Screw Closure Size.mm	I.D. Neck, mm	O.D. Bottle, mm	Hgt. W/Closure, mm
2 Litres	Bottle, NM	T582180	2100	PP	Natural	38	27.5	118	252
	Bottle, NM	T586260	2100	LDPE	Natural	38	27.5	118	252
	Bottle, WM	T582260	2100	PP	Natural	100	90	119	245
	Bottle, WM	T585260	2100	LDPE	Natural	100	90	119	245
	Bottle, WM	T584260	2100	HDPE	Natural	100	90	119	245
	Bottle, WM	T581360	2100	HDPE	Amber	100	90	119	245
	Heavy Duty Vacuum Bottle	T583255	2050	PP	Natural	53	38.5	118	270
4 Litres	Bottle, NM	T582160	430	PP	Natural	38	25.4	154	340
	Bottle, NM	T582170	430	PP	Amber	38	25.4	154	340
	Bottle, NM	T586280	430	LDPE	Natural	38	25.4	154	340
	Bottle, WM with Handle	T583257	4250	PP	Natural	100	86	163	302
	Bottle, WM with Handle	T583357	4250	HDPE	Natural	100	86	163	302
	Heavy Duty Vacuum Bottle	T582255	4100	PP	Natural	83	65	155	338
5 Litres	Aspirator Bottle with Stopcock	T583210	5400	PP	Natural	53	43.5	168	357
8 Litres	Bottle, NM	T582190	8500	PP	Natural	53	39.4	194.7	415
	Bottle, NM	T586290	8500	LDPE	Natural	53	39.4	194.7	415
10 Litres	Carboy	T583250	11500	PP	Natural	83	65	249	390
	Carboy	T583252	11500	PP	Amber	83	65	249	390
	Carboy	T583371	11500	LDPE	Natural	83	65	249	390
	Carboy Wide Mouth	T583350	11500	PP	Natural	100	95	249	390
	Carboy Wide Mouth	T583471	11500	LDPE	Natural	100	95	249	390
	Carboy with Stopcock	T583280	11000	PP	Natural	83	65	249	390
	Carboy with Stopcock	T584380	11000	LDPE	Natural	83	65	249	390
	Carboy with Tubulation	T585380	11000	PP	Natural	83	65	249	390
	Carboy with Tubulation	T586380	11000	LDPE	Natural	83	65	249	390
	Aspirator Bottle with Stopcock	T583220	10500	PP	Natural	53	43.5	200	465
20 Litres	Carboy	T583260	22000	PP	Natural	83	65	285	535
	Carboy	T583372	22000	LDPE	Natural	83	65	285	535
	Carboy Wide Mouth	T583360	22000	PP	Natural	100	95	285	535
	Carboy Wide Mouth	T583472	22000	LDPE	Natural	100	95	285	535
	Carboy with Stopcock	T583290	21500	PP	Natural	83	65	285	535
	Carboy with Stopcock	T584390	21500	LDPE	Natural	83	65	285	535
	Carboy with Tubulation	T585390	21500	PP	Natural	83	65	285	535
	Carboy with Tubulation	T586390	21500	LDPE	Natural	83	65	285	535
	Aspirator Bottle with Stopcock	T583230	22700	PP	Natural	53	43.5	265	545
50 Litres	Carboy	T583270	52000	PP	Natural	83	65	376	682
	Carboy	T583373	52000	LDPE	Natural	83	65	376	682
	Carboy with Stopcock	T583300	52000	PP	Natural	83	65	376	682
	Carboy with Stopcock	T584400	52000	LDPE	Natural	83	65	376	682

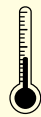

Rectangular Bottles, Carboys & Jerricans

Nominal Capacity	Description	Catalog Number	Approx. Brim Cap.ml	Material	Color	Screw Closure Size.mm	I.D. Neck, mm	Bottle Dimension (L x W), mm	Hgt. W/Closure, mm
125 ml	Rectangular Bottle	583320	140	HDPE	Natural	28	21	59X39.5	99
	Rectangular Bottle	583420	140	HDPE	Amber	28	21	59X39.5	99
250 ml	Rectangular Bottle	583330	285	HDPE	Natural	38	28.5	74.5X51.5	116
	Rectangular Bottle	583430	285	HDPE	Amber	38	28.5	74.5X51.5	116
500 ml	Rectangular Bottle	583340	620	HDPE	Natural	48	38	99.5X64	144
	Rectangular Bottle	583440	620	HDPE	Amber	48	38	99.5X64	144
1 Liter	Rectangular Bottle	583350	1100	HDPE	Natural	53	44	127X67	178
	Rectangular Bottle	583450	1100	HDPE	Amber	53	44	127X67	178
2 Liter	Rectangular Bottle with Handle	583360	2340	HDPE	Natural	63	52	150X97	237
	Rectangular Bottle with Handle	583460	2340	HDPE	Amber	63	52	150X97	237
4 Liter	Square Bottle with Handle	583258	4560	PP	Natural	100	87.5	147.5X147.5	297
	Square Bottle with Handle	583358	4560	HDPE	Natural	100	87.5	147.5X147.5	297
5 Liter	Rectangular Carboy + Stopcock	683240	6250	PP	Natural	100	85.5	227X144	342
	Rectangular Carboy + Stopcock	683241	6250	HDPE	Natural	100	85.5	227X144	342
	Jerrican	683210	7250	HDPE	Natural	53	38.5	253X168	330
8 Liter	Handyboy with Stopcock	683300	8300	PP	Natural	63	38	366X300	160
10 Liter	Rectangular Carboy + Stopcock	683250	11500	PP	Natural	100	85.5	284X176	400
	Rectangular Carboy + Stopcock	683242	11500	HDPE	Natural	100	85.5	284X176	400
	Jerrican	683220	11000	HDPE	Natural	53	38.5	282X189	380
20 Liter	Rectangular Carboy + Stopcock	683260	22000	PP	Natural	100	85.5	342X207	492
	Rectangular Carboy + Stopcock	683243	22000	HDPE	Natural	100	85.5	342X207	492
	Jerrican	683230	21500	HDPE	Natural	53	38.5	352X243	470

Resin Quick Reference Chart

	Polypropylene (PP)	Polypropylene Copolymer (PPCO)	Low Density Polypropylene (LDPE)	High Density Polypropylene (HDPE)
High Temperature 	135°C 	121°C 	80°C 	120°C 
Low Temperature 	0°C 	-40°C 	-100°C 	-100°C 
Autoclavable	Y	Y	N	N
Microwavable	Y	Marginal	Y	N
Dry Heat (Oven)	N	N	N	N
Freeze	N	Y	Y	Y
Flexibility	Rigid	Moderate	Excellent	Rigid
Clarity	Translucent	Translucent	Translucent	Translucent
Recycling Symbol				

Autoclaving Conditions

	121°C
	15 minutes
	15 psi

CAUTION

Before autoclaving set the closure on top of the container without engaging the threads. During decompression phase of the autoclaving cycle, the pressure within the vessel must be allowed to equalize. Any material stacked or placed over the closure has a potential to cause a vacuum to form, resulting in collapse.