



LP ITALIANA SPA

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TECHNICAL DATA SHEET

HDPE BOTTLES 250 – 1.000 ml capacity

These LP bottles made in HDPE (High Density Polyethylene) which are intended for general laboratory use, are also suitable to come in contact with food. They are designed and manufactured with the aim of safety and ease of use.

Volume range is between 250 and 1000 ml.

These bottles can cover any handling requirement and are suitable for a wide variety of materials (granules, powders, different density liquids, and all standard common food for over 30 days at 40°C max).

The mouth “d” comes in two nominal dimensions: 22,5 and 30 mm

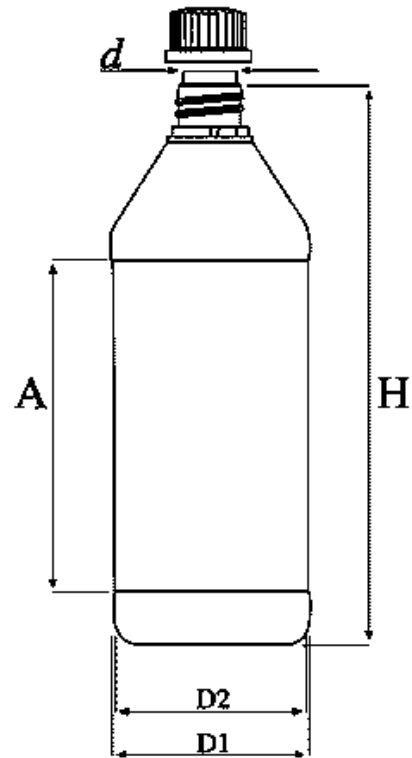
LP Bottles are manufactured in a controlled environment room (GMP) to avoid any possible particle and biological contamination.

Main Characteristics:

- Light, stable for easy handling, they optimize storing and transport
- Strong
- Unbreakable
- High resistance to chemicals agents
- Translucent

Characteristics of the cap (supplied not mounted):

- Made in HDPE
- Colour: white (mouth 22,5); black (mouth 30)
- Screw type;
- Built-in leakproof rim
- With a safety lock ring with pre-defined break-off points. When the cap is closed, and locked, it assures the metrological condition, (quantitative, volumetric etc) or microbiological declared by end user.
- Leakproof: assured by a built-in rim working jointly with the mouth (see above).
- Storage: keep the bottles away from dust and contaminants, in a dry place at room temperature. It is the end user’s responsibility to verify the suitability leakproof property of the product for the user’s specific samples application and purpose.
- Industrial or commercial use: it is the end user’s responsibility to verify the conformity to local norms and to the technological and food contact suitability with its own product.
- Re-usable: after having completely emptied and cleaned the bottles, one can reuse LP bottles, several times.
- Recycling: caps and bottles are manufactured with recyclable materials .
- Disposal: HDPE bottles and caps by LP ITALIANA SPA are manufactured using materials respecting environment ecology, they can be incinerated, at an appropriate temperature and with an adequate air injection, giving residuals of H₂O e CO₂ or delivered to a controlled landfill, in accordance with National and local laws on waste disposal.



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- Sterilization: refer to following table:

Autoclave	Gas (Et-Ox)	Dry at 160°C	Chemical (Formaline)	Irradiation (γ o β)
NO	YES	NO	YES	YES

Technical-commercial Specifications:

Product Code	Nominal Volume	Bottle weight	Total weight	Total height capped	Diameter <i>d</i>	D2 ($D1=D2+I$)	A	H	Quantity per Box
	(ml)	(g)	(g)	(mm)	(mm)	(mm)	(mm)	(mm)	N°
292110	250	25	28	140	22.5	60	90	136	25
292111	500	42	45	179	22.5	74	75	170	25
292112	750	60	63	214	22.5	81	91	215	20
292113	1.000	70	73	218	22.5	90	124	222	5
292120	250	25	35	140	30	60	75	137	25
292121	500	45	55	179	30	74	91	177	25
292122	750	60	70	214	30	81	124	214	20
292123	1.000	70	80	218	30	90	125	230	5

Symbols: The appropriate graphic symbols according to currently harmonized Directives, are moulded on the bottom of each bottle..


Suitability: LP ITALIANA - HDPE bottles and caps are manufactured with virgin raw materials, that satisfy all requirements to be used for food contact and pharmaceutical purposes, meeting the requirements of:

- D.P.R. 777 (23.08.1982)
- D.L. 108 (25.01.1992)
- D.M.li 34 (21.03.1973 - GU 104 - 20.04.1973) and supplementaries and implementing decrees
- DIR 82/711/CEE GUCEE L 297 del 23.10.1982 – 85/572/CEE GUCEE L 372 (31.12.1985) – 93/8/CEE GU L 90 (14.04.1993) – 97/48/CE GUCE L 222 (12.08.1997) – EU Regulation N. 10/2011 GUUE L 12 (15/01/2011), N. 321/2011 GUUE L 87 (02/04/2011) e N. 1282/2011 GUCE L 302 (19/11/2005)
- UNI EN 1186-1:15:2003
- FRANCE: Matériaux au contact des aliments, brochure N. 1227 Ed. 1997. Decret 98/638 (20.06.1998)
- GERMANY : BgVV-Empfehlung III. Polyethylen (01.07.2000)
- USA: FDA 21 CFR 177.1520 „Olefin polymers“ e CONEG Amount of PB – Cd – Cr VI – Hg < 0,01%

Also masters used to colour caps fulfil the requirements on materials used for articles intended to come in contact with food and for toys:

- ITALY: Ministry Decree (21.03.1973)
- GERMANY : BgVV-Empfehlung IX. (01.06.1994)
- FRANCE: Circulaire N. 176 (02.12.1959)
- European Norm EN71 (part III related to migration included)

LP ITALIANA experiences and tests have not given any negative results on what has been stated above but the verification of eventual migration from the bottles in contact with some specific contaminating agents must be carried out and it is the user's responsibility.

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