



USAGE INSTRUCTIONS

*for bottles, jerrycans
and closures*

STORAGE

The recommended storage temperature for bottles/jerrycans should be between +5 °C and +40 °C. Higher temperature may cause deformity of the bottles/jerrycans.

The bottles/jerry cans must not be exposed to direct sunlight in order to avoid the containers mechanical properties being negatively affected.

USE/FILLING

The unused bottles/jerry cans should only be used upto 5 years after the production date. Please make sure that the packaging and in particular the sealing zones are not damaged/negatively affected when emptying and filling the containers. Avoid any and all mechanical or thermal damage to the bottles/jerrycans. Please use the degassing closures for gaseous goods.

FILLING HOT SUBSTANCES

Do not stack the bottles/jerry cans while they are still warm. the bottles/jerrycans may only be closed after having cooled down, or only with a degassing closure in order to ensure pressure equalization.

The bottles/jerry cans should be able to cool off quickly. If they maintain higher temperatures (60-80°c) for a lengthy period, it could cause permanent deformation of the jerrycans. The bottles/jerrycans must filled in a upright position on a level surface. Floors or areas with openings or unsuitable pallets (light pallets) should be avoided.



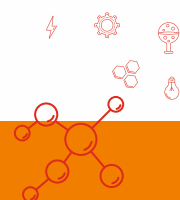
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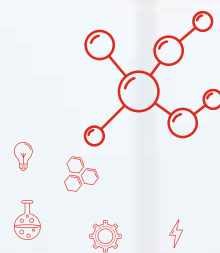


Alpha Chemika

THE CHEMICAL OF PURITY, THE ART OF PACKAGING



Alpha Chemika



Alpha Chemika



INTRODUCTION

Manufacturers and Exporters of Laboratory Reagents and Fine Chemicals
We are one of the leading manufacturers and exporters of HPLC, AR/GR and LR Grade Laboratory Reagents and Fine Chemicals. We started the venture over 30 years ago to deal in bio-chemicals and reagents for LIFE SCIENCE research and other SPECIALTY CHEMICALS.

ALPHA CHEMIKA today is one of the forerunners in the Indian chemical industry.

In a matter of years with our team work and efficiency, not forgetting our superior products, we have been able to establish a strong market share. ALPHA CHEMIKA provides precisely what our customers need. With the highest quality materials at the lowest possible cost, we are confident that you will be pleased with our products and services. Our dedicated team will provide the best solution for your business, ensuring every aspect of quotation, order processing, packing and shipment is carried out smoothly & professionally.



GMP CERTIFIED



QUALITY ASSURANCE

"At our plastic processing and chemical manufacturing company, we are committed to delivering high-quality chemicals and multi-layered HDPE packaging solutions designed to meet customer needs.

From raw material selection to final inspection, every stage reflects our dedication to quality and innovation. Through advanced technology and strict testing, we ensure superior safety, durability, and performance in all our products.

By combining chemical excellence with packaging innovation, we strive to build lasting partnerships and contribute to our customers' success."



OUR VISION

"Our vision is to be recognized by our clients as a preferred problem-solving applied research group, solving our client's specific needs in the environmental, chemical, process optimization, and industrial forensics specialties by linking technology to solutions. We will achieve our mission by providing excellent service to our customers, continuing the development of our staff, contributing to our community, and operating with a high degree of quality and integrity."



OUR MISSION

"Alpha Chemika with a business goal and mission of providing high quality products and superior services to pharmaceutical, chemical and biotechnology and commercial clients in the environmental, chemical process optimization, and industrial forensics specialties."

OUR TEAM

We have assigned at our place all the employees who are well their duty of work are highly committed towards the uplifting of the firm. We included in our firm the manager, quality controller, researcher, operators, semi-operators and huge number of helpers who help co-coordinately for smooth working within the organization.



WHY US?

- ! Our products are designed in line with international standards.
- ! Unique neck design ensures smooth dispensing of liquids without spilling over bottle. Universally accepted GL45 neck.
- ! Our GL45 outer caps can be personalised with company logo marking on top.
- ! All 4 containers are unique in construction i.e. Conventional packing materials are made from single layer hdpe, hence additives such as master batch, uv stabiliser, optical brighteners comes directly in contact with chemicals being filled in container leading to contamination and reduction in shelf life of the product
- ! On the contrary our containers are made using co-extrusion technology which allows us to keep inner layer as pure virgin layer without any of the above mentioned additives.
- ! All the required additives to achieve strength of the product is added to outer layer of the container, thereby completely avoiding its contact with pure chemicals.
- ! Automatic raw material feeding system to ensure zero contamination while material loading.

MEASURE TAKEN FOR QUALITY CONTROL

- Online Leak test - Online leak testing machine is installed, to check leakages in every bottles.
- Drop test - Bottles of each shift tested for Impact Strength by drop test from a height of 1.2mts.
- Uniform thickness - The Bottles are cut at the centre horizontally and vertically and thickness is measured by Vernier Calipers.
- Weight - Weight of bottles are checked on electronic scale every half n hour.

PROCESS DESCRIPTION

- ✓ Minimizes particle escalation
- ✓ Prevents migration through the bottle
- ✓ Shatter proof
- ✓ Light handling
- ✓ Prevents chemical reactions by blocking UV light

PRISTIUS BOTTLE VS GLASS BOTTLE

	Pristius Bottle	Glass Bottle
CLEANLINESS	●	▲
HANDLING (weight)	○	X
SHATTER PROOF	●	X
UV PROOF	●	▲



EXTRUSION BLOW MOULDING

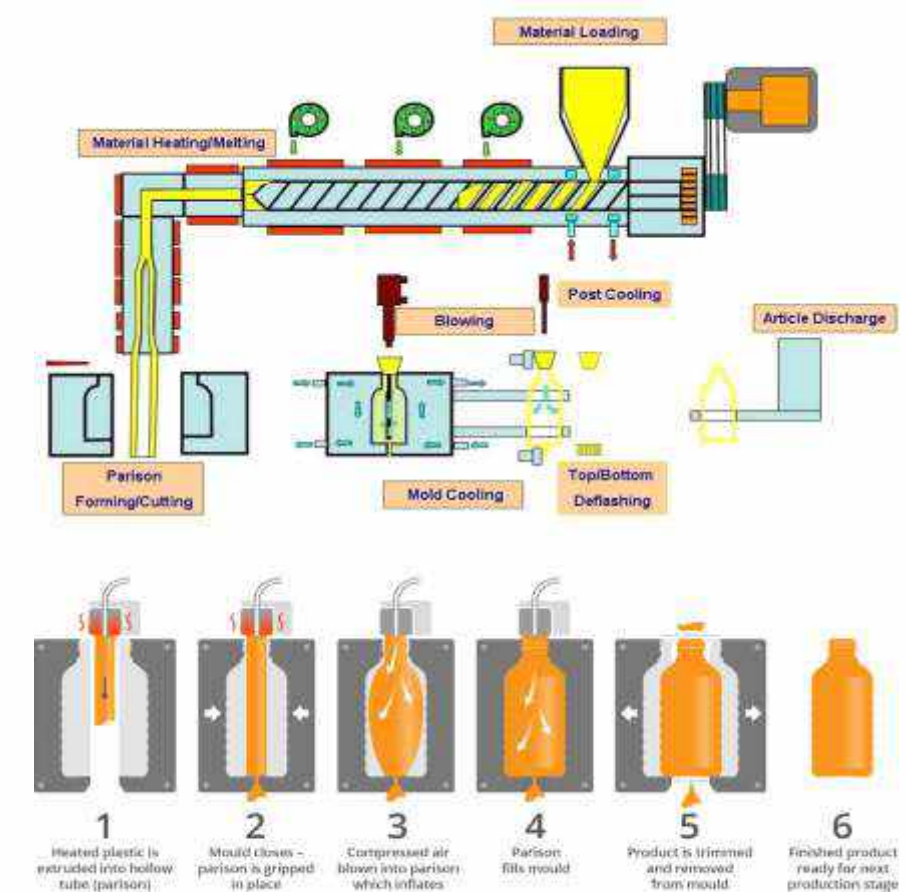
INTRODUCTION

Extrusion Blow Moulding is a process that makes small and large hollow parts quickly. There are two different industry segments that use Extrusion Blow Moulding, packaging (bottles) and industrial hollow parts. The products range from less than 10 ml up to 1000 Lit.

BASIC PROCESS

- ! The Principles of Blow Moulding A simple explanation of the principle of blow moulding is a balloon. If you blow air into a plastic tube that is closed on all sides except the point at which the air enters, the tube will expand and take the shape of the mould that is around the tube.
- ! The process begins with a plastic resin hot tube called a parison or pre-form. The parison is placed within a split mould with a hollow cavity.
- ! The mould sides are then clamped together, pinching and sealing the parison tube.
- ! Air is blown into the tube, which expands the hot resin wall into the shape of the cavity; the mould is cooled with water solidifying the resin into the shape of the part.
- ! Once cooled, the part is ejected from the mould and trimmed.

PROCESS FLOW DIAGRAM





LIST OF MACHINES

INJECTION MACHINE | EXTRUSION BLOW MACHINE



INJECTION MACHINE



EXTRUSION BLOW MACHINE

2 TYPES :
UPTO 2.5 litre,
UPTO 5 LITRE



LIQUID BOTTLES

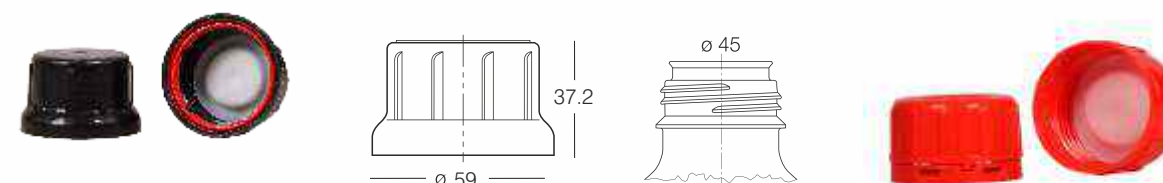


UN Narrow neck
BOTTLE SERIES HDPE

Nominal capacity ml	A mm	B mm	C mm	D mm	Weight g
500	75 x 75	28.7	45	169	65
1,000	95 x 95	28.7	45	213	110
2,500	127 x 140	28.7	45	293	210
5,000	166 x 166	28.7	45	331	310

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure

Closure: Narrow mouth



Closure material	Ring Material	Fit type	Thread size	Sealing type	Tamper Evidence
PP	PP	screw type	45	PE-seal plug + PTFE disc	YES
PP	PP	screw type	45	liner	YES



POWDER BOTTLES- EURO NECK



UN Wide neck
BOTTLE SERIES HDPE

Nominal capacity ml	A mm	B mm	C mm	D mm	Weight g
550	75 x 75	50	63	167	60
750	96 x 96	50	63	179	70
1,100	96 x 96	50	63	211	80

A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure

POWDER BOTTLES INDIA NECK

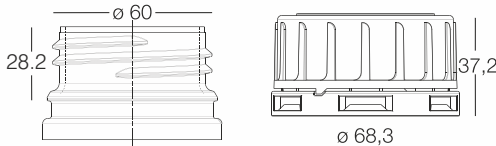


IND Wide neck
BOTTLE SERIES HDPE

Nominal capacity ml	A mm	B mm	C mm	D mm	Weight g
550	79 x 81	50	60	133	60
750	87.5 x 90	50	60	141	70
1100	89.5 x 92	50	60	177	80

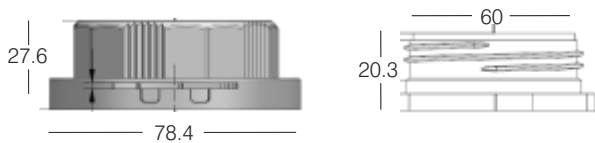
A = Diameter body / B = Neck i.d. / C = Cap size o.d. / D = Height without closure

Closure: Wide mouth



Closure material	Fit type	Thread size	Sealing type	Tamper Evidence
PP	screw type	60 W	Tapper Seal	YES
PP	screw type	60 W	Wad Type	YES

Closure: Wide mouth



Closure material	Fit type	Thread size	Sealing type	Tamper Evidence
PP	screw type	60 W	LD seal Plug	YES