

# PACKAGING FOR THE FUTURE









## INTRODUCTION

We would like to introduce ourselves as an **ISO 9001:2015 TUV CERTIFIED** firm established in 2022 with an experience of almost 2 decades, We have grown consistently to become a renowned manufactures & exports of Plastic Injection Moulding & Blow Moulding Articles used in Pesticides, Agriculture, Pharmaceuticals, Chemicals, Paints & Tool industries.

We have achieved a good name & reputation in this market not by our name but by our quality product & customers satisfaction.

We have **BLOW MOULDING** machines with the capacity of 50ml To 5000ml. Production capacity & **INJECTION MOULDING** machines with 1 Gram To 500 Grams production capacity at our plant with all the modern amenities & automation necessary for the working of the unit. We have a total moulding capacity of around 150 tons of Plastic Materials per month and we operate by 24x7 a single minute of 365 days.



TUV CERTIFIED



## QUALITY ASSURANCE

"At our plastic processing company, we are dedicated to providing our customers with high-quality, multi-layered HDPE products that meet their specific needs.

Our commitment to quality is embedded in every aspect of our manufacturing process, from the selection of raw materials to the final inspection of finished products.

We utilize advanced technology and rigorous testing protocols to ensure that our products meet or exceed industry standards for safety, durability, and performance.

We strive to continuously improve our processes to deliver the best possible products to our customers. By prioritizing quality in everything we do, we aim to build long-term relationships with our customers and contribute to their success."



## OUR VISION

"Our vision is to become a trusted and innovative global leader in the manufacturing of sustainable HDPE products. We envision a world where plastic waste is minimized through circular economy solutions and our products play a critical role in supporting a more sustainable future. By leveraging our expertise in plastic processing, we aim to continuously push the boundaries of what's possible, while always prioritizing the needs of our customers, employees, and the environment."



## OUR MISSION

"Our mission is to provide our customers with high-quality, sustainable, and innovative multi-layered HDPE products that meet their unique needs while promoting environmental responsibility through our manufacturing processes. We strive to continuously improve our technology and processes to deliver the best

## 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
<b>CLEANLINESS</b>	●	▲
<b>HANDLING (weight)</b>	○	X
<b>SHATTER PROOF</b>	●	X
<b>UV PROOF</b>	●	▲



# EXTRUSION BLOW MOULDING

## INTRODUCTION

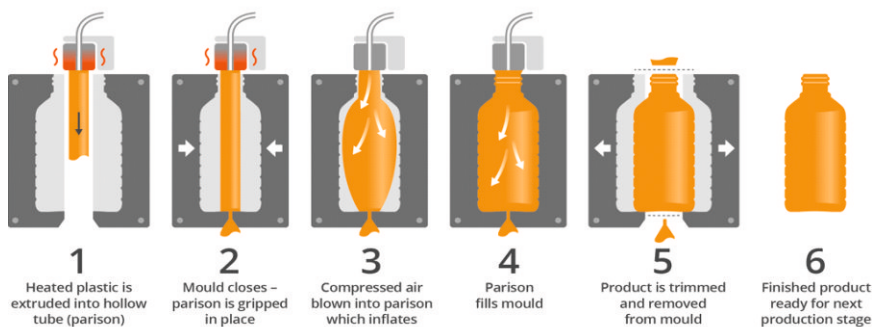
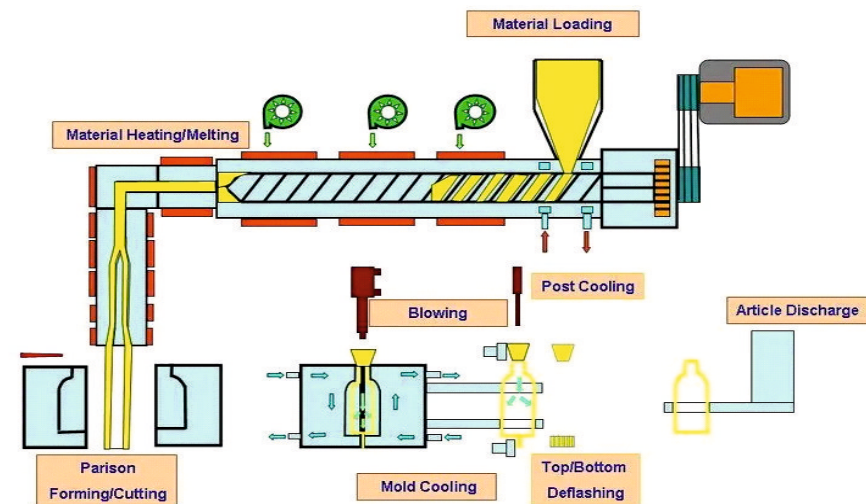
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Extrusion Blow Moulding is a process that makes small and large hollow parts quickly. There are two different industry segments that use Extrusion Blow Moulding, packaging (bottles) and industrial hollow parts. The products range from less than 10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





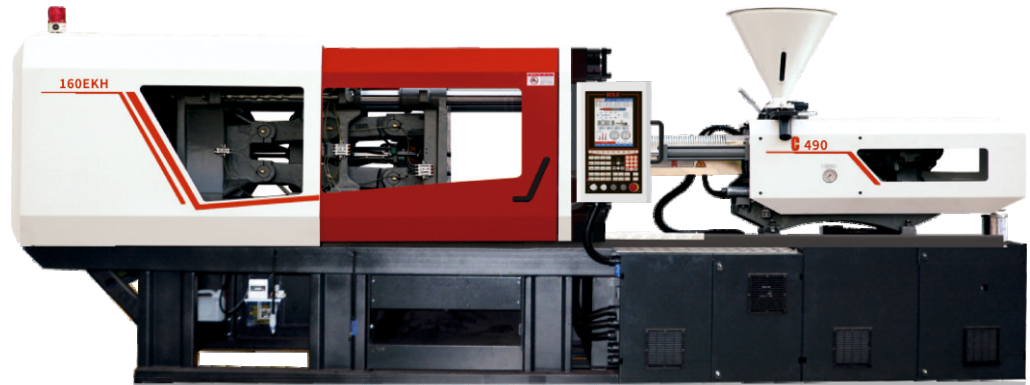


## LIST OF MACHINES

INJECTION MACHINE

EXTRUSION BLOW MACHINE





INJECTION MACHINE



EXTRUSION BLOW MACHINE

2 TYPES :  
UPTO 2.5 litre,  
UPTO 5 LITRE





# PRODUCT DATASHEET

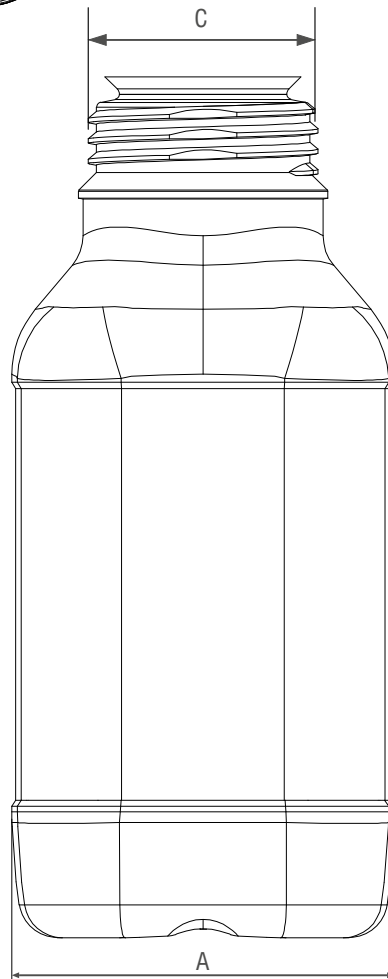
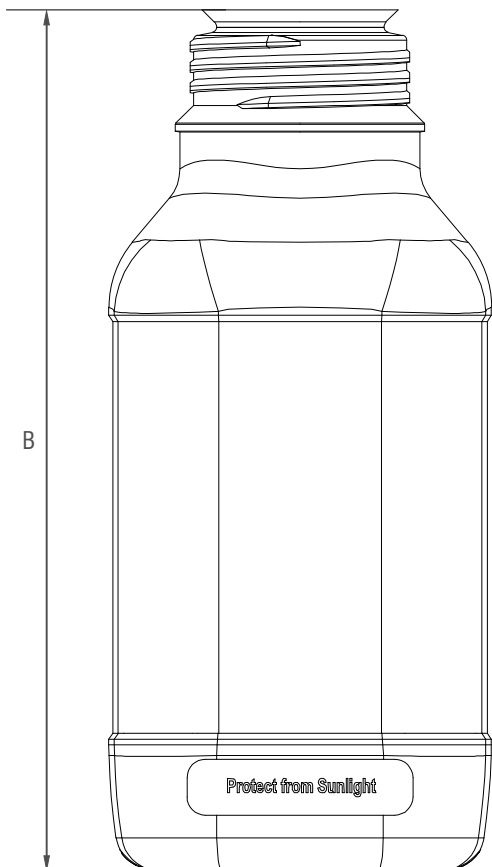
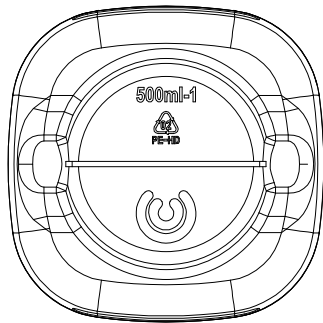
Description : **500ml Plastic Bottle**

Product Group : Plastic Bottle

Product Code :

PB / 05 / xx / xx

↓ ↓  
Material Code    Colour Code



## DIMENSIONS & TOLERANCE

A :	74.9	± 0.5
B :	168.5	± 0.5
C :	45.0	± 0.25

## COLOUR

1. NATURAL	00
2. MILKY WHITE	01
3. BLACK	02
4. BLUE	03

## MATERIAL

HDPE - 12

## WEIGHT

64 gms

\* Bottle includes a dust cap to avoid contamination before filling.

\* Dispose of dust cap prior to capping.

\*  "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

Description : **1000ml Plastic Bottle**

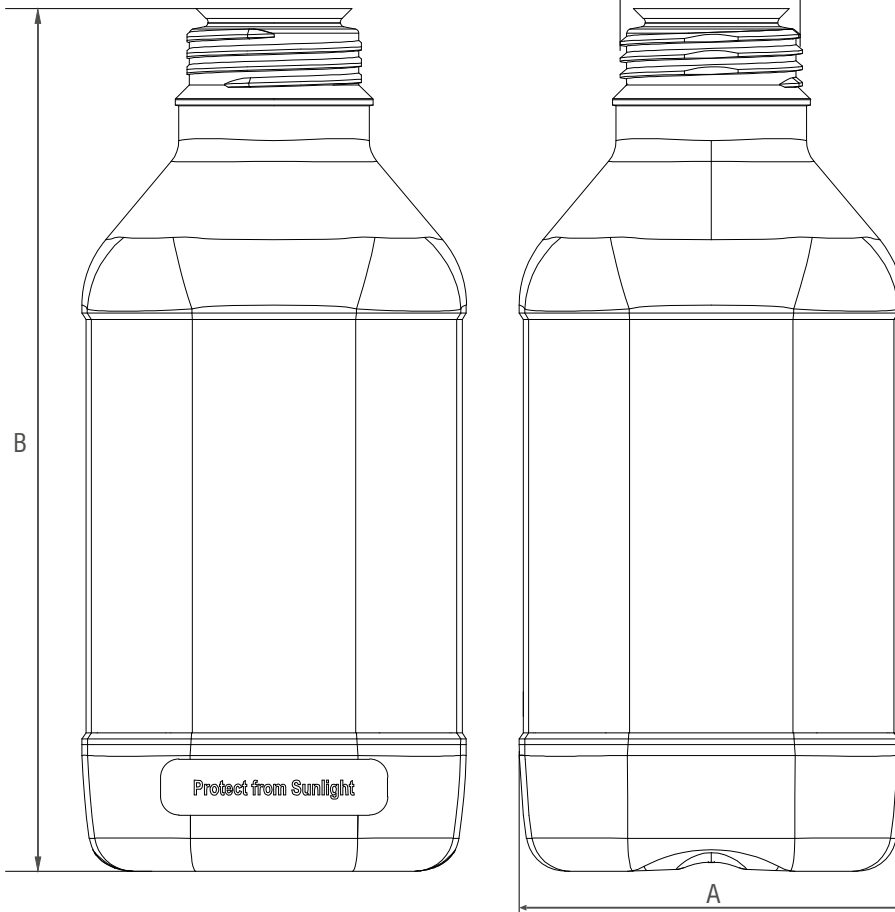
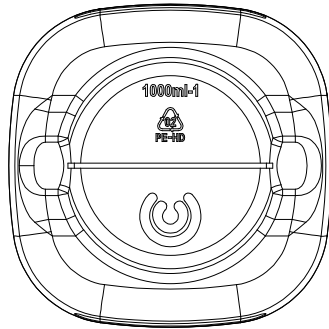
Product Group : Plastic Bottle

Product Code :

PB / 10 / xx / xx



Material Code    Colour Code



### DIMENSIONS & TOLERANCE

A :	94.8	± 0.5
B :	212.7	± 0.5
C :	45.0	± 0.25

### COLOUR


1. NATURAL	00
2. MILKY WHITE	01
3. BLACK	02
4. BLUE	03

### MATERIAL

HDPE - 12
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### WEIGHT

110 gms
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- \* Bottle includes a dust cap to avoid contamination before filling.
- \* Dispose of dust cap prior to capping.
- \*  "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.





# PRODUCT DATASHEET

Description : **2500ml Plastic Bottle**

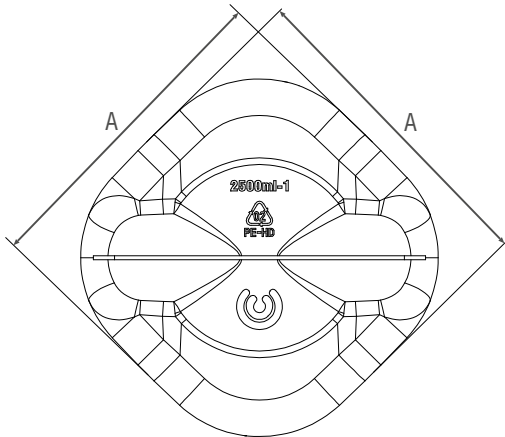
Product Group : Plastic Bottle

Product Code :

PB / 25 / xx / xx



Material Code    Colour Code



## DIMENSIONS & TOLERANCE

A :	126.6	± 0.5
B :	140.0	± 0.5
C :	292.4	± 0.5
D :	45.0	± 0.25

## COLOUR

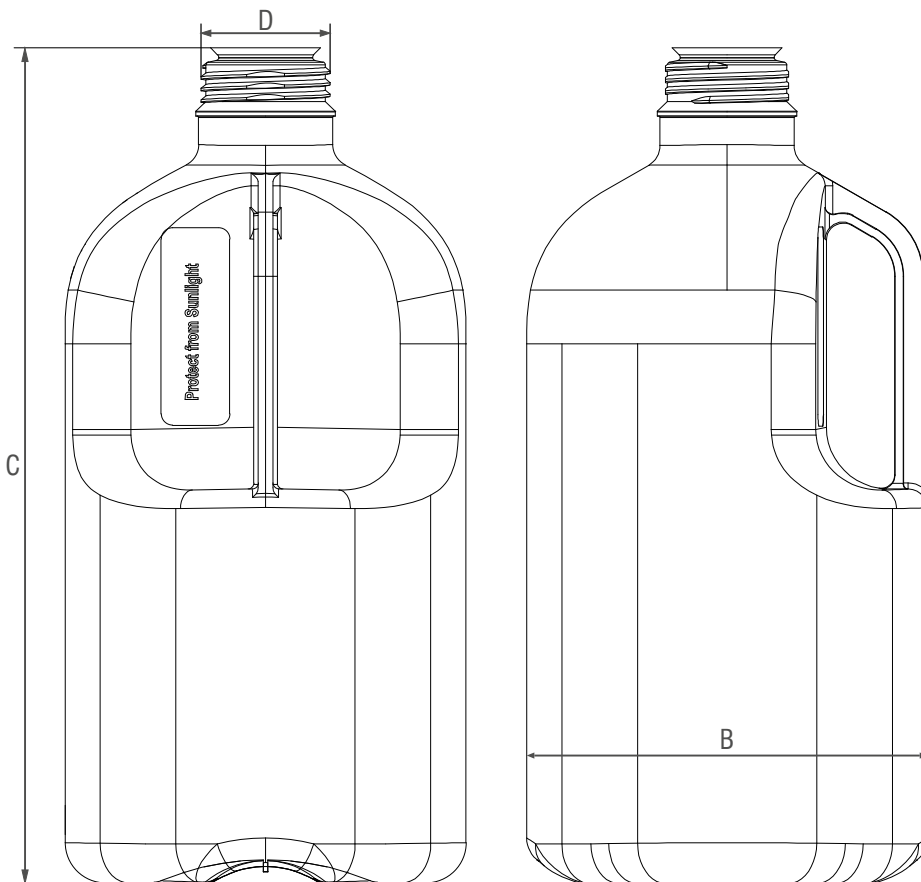
1. NATURAL	00
2. MILKY WHITE	01
3. BLACK	02
4. BLUE	03

## MATERIAL

HDPE - 12

## WEIGHT

205 gms



\* Bottle includes a dust cap to avoid contamination before filling.

\* Dispose of dust cap prior to capping.

\*  "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.

Description : **5000ml Plastic Bottle**

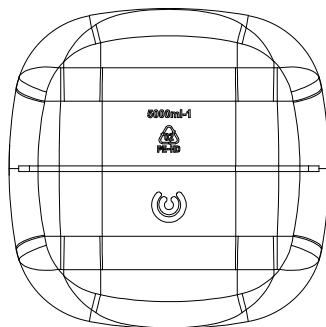
Product Group : Plastic Bottle

Product Code :

PB / 50 / xx / xx



Material Code    Colour Code



### DIMENSIONS & TOLERANCE

A :	166.0	± 0.5
B :	331.4	± 0.5
C :	45.0	± 0.25

### COLOUR

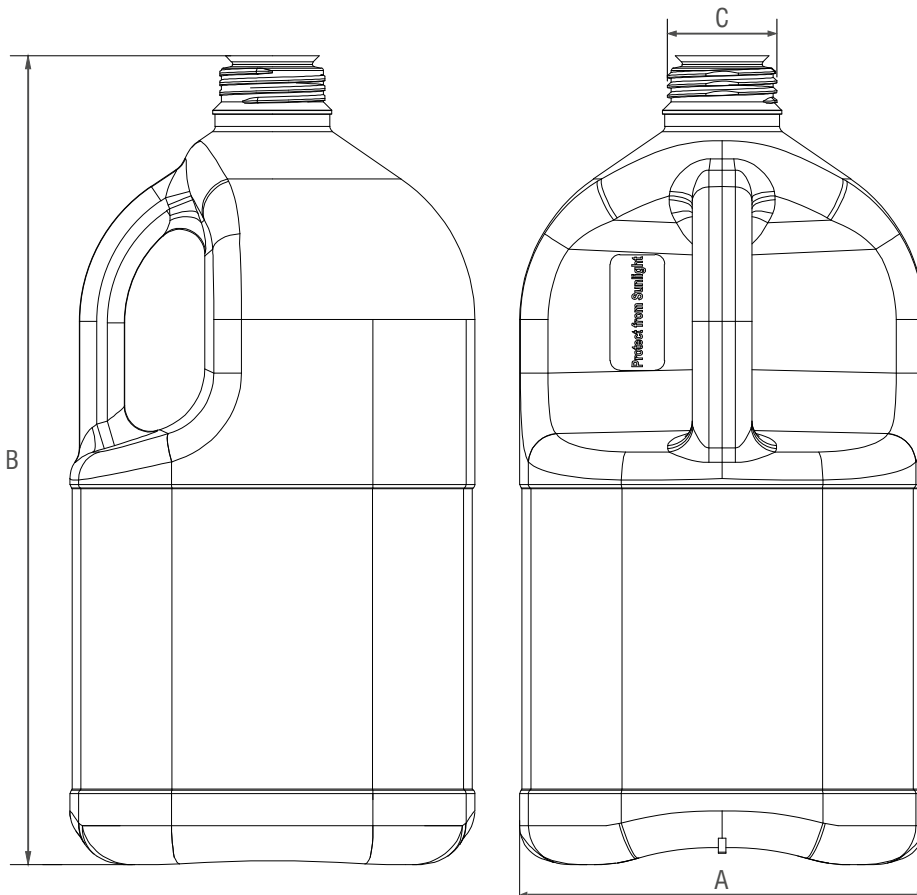
1. NATURAL	00
2. MILKY WHITE	01
3. BLACK	02
4. BLUE	03

### MATERIAL

HDPE - 12

### WEIGHT

310 gms



\* Bottle includes a dust cap to avoid contamination before filling.

\* Dispose of dust cap prior to capping.

\*  "Recycling symbol" in accordance with Directive 97/129/EC and 94/62/EC.



# PRODUCT DATASHEET

Description : **Glass Bottle Outer Cap**

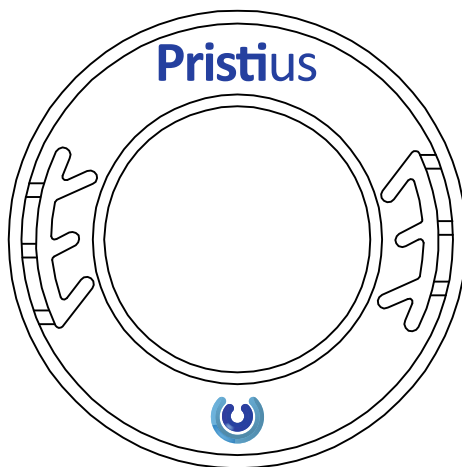
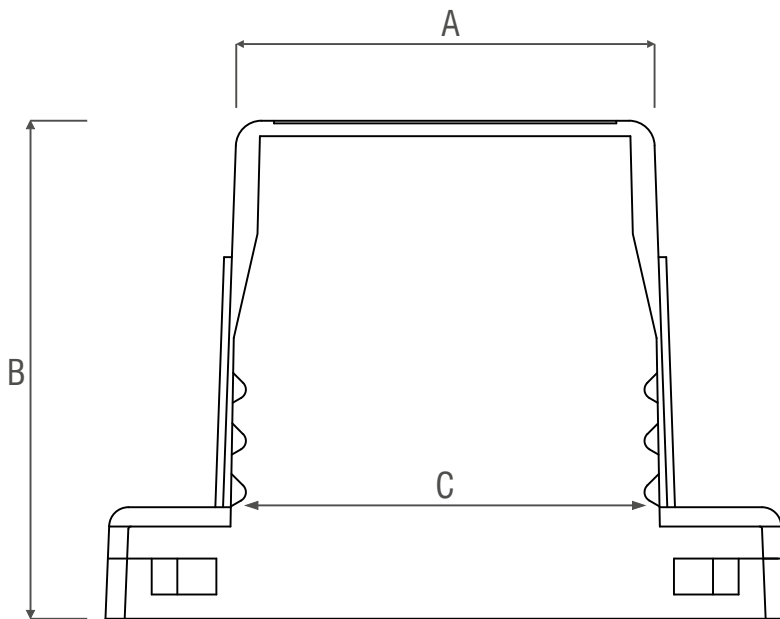
Product Group : GB Plug and Outer Cap

Product Code :

GB / 20 / xx / xx - x



Material Code    Colour Code    Wad Type



## DIMENSIONS & TOLERANCE

A :	32.00	± 0.3
B :	40.3	± 0.3
C :	30.40	± 0.3

## MATERIAL

PP - 11
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## COLOUR

1. NATURAL	00
2. BLACK	01
3. YELLOW	02
4. BLUE	03
5. RED	04
6. GREEN	05

## WAD TYPES

1. ALUMINIUM	A
2. EPE	B
3. NO WAD	C



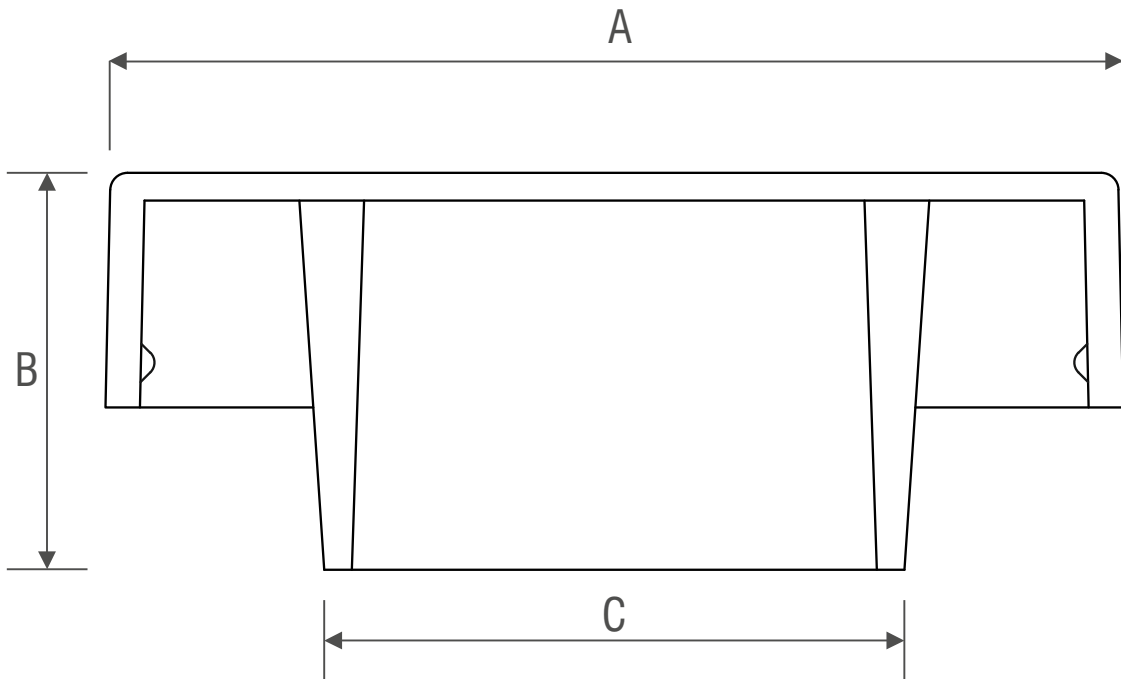
Description : **Collar Type Plug for Glass Bottle**

Product Group : GB Plug & Outer Cap

Product Code :

GB / 10 / xx / xx

↓      ↓  
 Material    Colour  
 Code        Code



DIMENSIONS & TOLERANCE		
A :	28.00	± 0.3
B :	11.00	± 0.3
C :	16.00	± 0.5

WEIGHT	
	1.45 gms

MATERIAL	
LLDPE	10
PP	11
PVDF	13



# PRODUCT DATASHEET

Description : **GL45 Outer Cap**

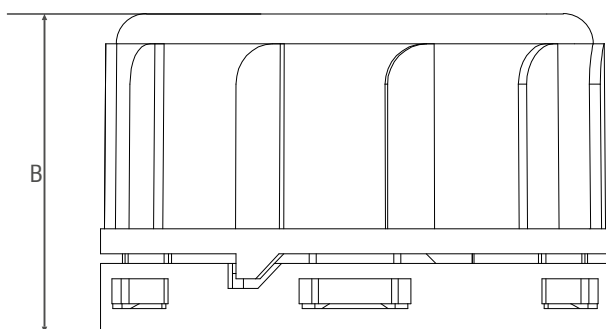
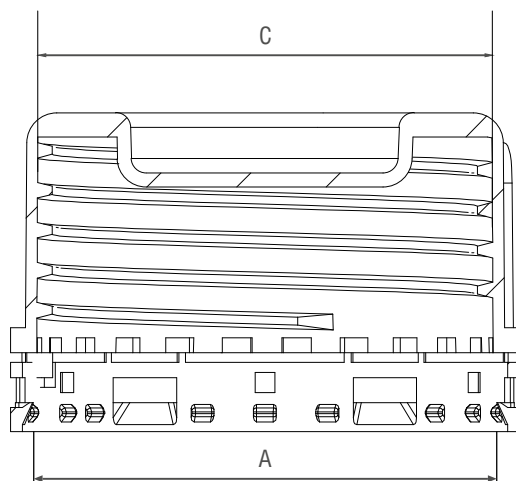
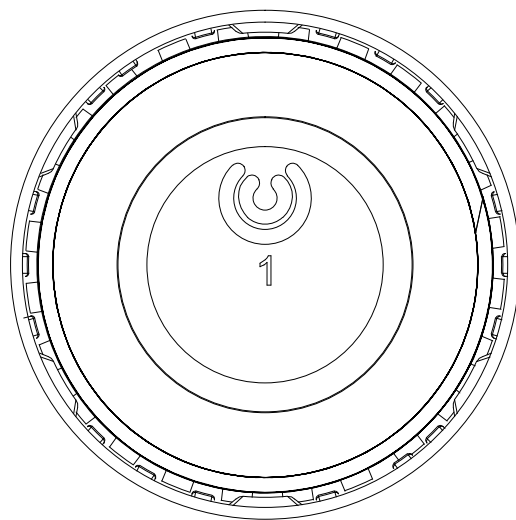
Product Group : Plastic Bottle

Product Code :

PB / GL / 45 / xx / xx



Material Code    Colour Code



## DIMENSIONS & TOLERANCE

A :	46.4	± 0.5
B :	31.9	± 0.5
C :	45.6	± 0.25

## COLOUR

1. NATURAL	00
2. BLACK	01
3. YELLOW	02
4. BLUE	03
5. RED	04
6. GREEN	05

## MATERIAL

PP - 11

## WEIGHT

12 gms

## WAD TYPES

1. NO WAD	C
2. TEFLON	T

# 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

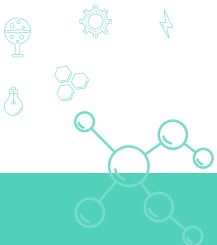
Do not stack the bottles/jerry cans while they are still warm. the bottles/jerrycans may only be closed after having cooled down, or only with a degassing closure in order to ensure pressure equalization.

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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