



CRAFTING INDELIBLE  
BRILLIANCE  
FROM MOULD TO FINISH...

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## ABOUT US

A group of passionate and forward-thinking individuals founded BRILSOL, a leading pre-mould, post-mould graphics, and rotational moulding compounds unit. Established in 2015, BRILSOL is India's graphic manufacturing pioneer. Our indelible graphic solutions, catering to global brands, have gained widespread recognition, security and durability. Additionally, BRIL-LENE focuses on polymer compounds for rotational moulding while BRILFOAM specializes in thermal insulated products.



Your solution for permanent labelling for plastic product Brill's Indelible Graphic Solutions offer a unique edge to your branding, acting like holograms that stand out. Our Permanent Graphics, both Pre (In Mould) & Post-Mould, ensure lasting, incorruptible designs for a lifetime. Decorating takes just 20 seconds, without the need for extra resources.

### WHY CHOOSE BRILSOL GRAPHICS?

Rigorous testing parameters make them inimitable, from flexibility to UV resistance, salt spray, extreme temperatures, solar radiation and pressure wash tests. Impact resistance, adhesion, chemical, solvent and humidity testing guarantees unparalleled results.

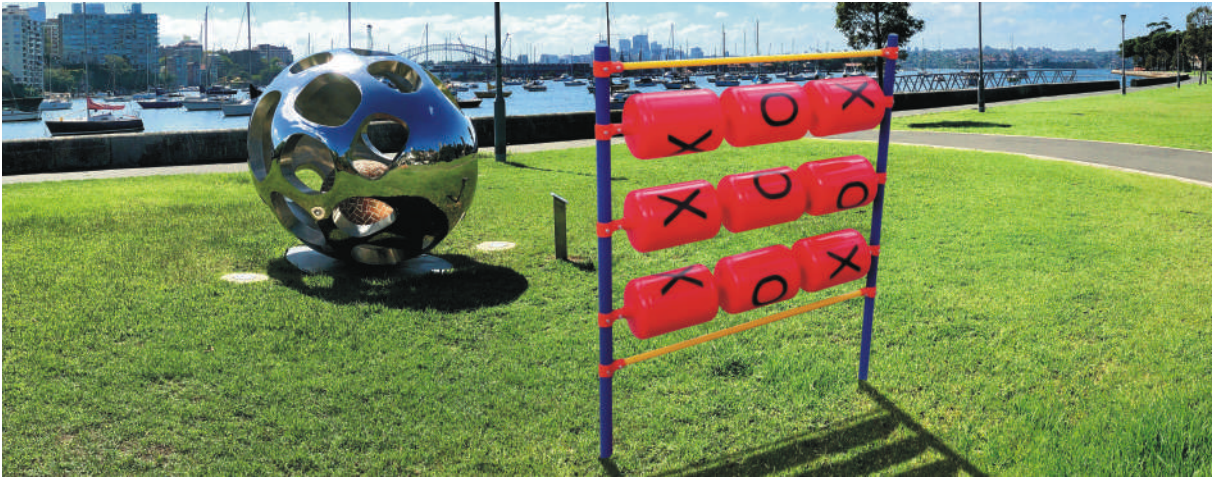
**BRILSOL OFFERS SPECIALIZED IN-MOULD LABELING SOLUTIONS  
TAILORED FOR VARIOUS MOULDING PROCESSES:**

**BLOW MOULDING**



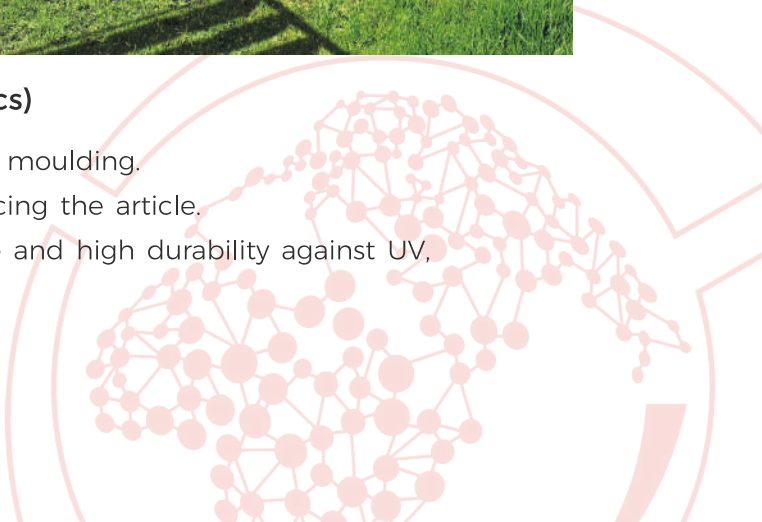
- Utilizes pre-mould conventional graphics similar to stickers.
- Features adhesive coating on the label's front side.
- Easy to use – peel off the release paper and the label is ready for application.

**ROTATIONAL MOULDING**



**Pre-Mould Cutting-Edge: (In Mould Graphics)**

- Cutting-edge graphics suitable for rotational moulding.
- Aesthetic, embossed into the mould, enhancing the article.
- Clear background, hologram-like appearance and high durability against UV, weathering and chemicals.





### Pre-Mould Conventional: (In Mould Graphics)

- Conventional graphics for rotomoulding, akin to stickers with adhesive coating.
- Quick and easy application-peel off the release paper for fast production.



### Post-Mould Graphics (On Mould):

- Ideal for applying branding to existing plastic products.
- Perfect for stock items and large water tanks.
- Strong colours, extreme resistance to chemicals, abrasion and outdoor exposure.
- Short lead times and variable quantity support.
- Suitable for articles where pre-mould graphics are not feasible or mould design is intricate.
- Short cycle time allows for post-moulding application of permanent graphic designs.

## INJECTION MOULDING

### Pre-Mould Cutting-Edge: (In Mould Graphics)

- Extensively used in injection moulding processes.
- Intrinsic part of the final product with multiple colour and graphic effects.
- Impermeable to chemicals and abrasion, ensuring durability.
- Labels amalgamate into the outer surface of the moulded part when loaded into the mould.
- Accommodates customer requisites and supports multi-colour applications.



## POST-MOULD DOMED LEVELS



### Post-Mould Labels: (Domed Labels)

- Domed labels or Post-Mould Labels, have a printed pressure sensitive design.
- They feature a thick, clear polyurethane coating for a tactile 3D finish.
- Widely used in manufacturing, clothing, jewellery, automotive and medical equipment industries.
- Durable, scratch-proof, waterproof and resistant to extreme conditions.
- Self-healing properties maintain a new look, even after minor scratches.
- Suitable for both interior and exterior applications.
- Adheres to various surfaces, including metal, fabric and plastic.
- Serve purposes in branding, marketing and product labeling.



## **BRIL-LENE** BRILLIANT ROTO COMPOUND

BRIL-LENE Roto Compound, where cutting-edge technology meets versatile manufacturing. We specialize in producing a wide range of rotomoulding powders in custom colours, setting a benchmark for quality and affordability. Our state-of-the-art machinery ensures top-notch granules for optimal toner and plastic material blending.

Following the extrusion and shaping of the mixed substance into granules and subsequently transforming them into powder form, we meticulously package these products in a range of weights and quantities tailored to meet the specific needs of our clients. Our commitment to excellence is backed by laboratory reports that align with the highest standards of Indian-grade powders.



## WHY CHOOSE BRiL-LENE? WE BOAST




  
Good Impact  
Properties

  
Medium  
Stiffness

  
Outstanding  
Flow Properties

  
Long Shelf Life

  
Non-Oxidizing  
Character

  
Durability

  
High ESCR

**BRiL-LENE stands out due to its exceptional product qualities and versatility, making it the ideal choice for a wide range of applications. Here's why BRiL-LENE is preferred:**

- **Cost-Effectiveness:** In addition to its exceptional qualities, BRiL-LENE offers cost-effective solutions, ensuring that you get the best value for your investment.
- **Ease of Processing:** Our compounds are formulated for easy processing, reducing production time and costs while maintaining quality standards.
- **Versatility:** With BRiL-LENE, you have a versatile solution that can be adapted to a wide range of manufacturing processes and product designs.
- **Consistent Quality:** Our commitment to quality extends beyond the initial purchase. With BRiL-LENE, you can expect consistent quality in every batch, ensuring reliable performance and customer satisfaction.
- **Technical Support:** We provide comprehensive technical support to our clients, offering expertise and assistance throughout the manufacturing process to ensure optimal results.
- **Environmental Sustainability:** BRiL-LENE is dedicated to environmental sustainability. Our compounds are produced using eco-friendly processes and materials, minimizing environmental impact.
- **Customization Options:** We understand that every project is unique. That's why we offer customization options to meet your specific requirements, whether it's colour, stiffness or other properties.
- **Continued Innovation:** At BRiL-LENE, we are committed to innovation and continuous improvement. We invest in research and development to stay at the forefront of technological advancements in the industry.



Applications of our rotational moulding granules extend to the manufacturing of water and chemical tanks, pallets, material handling bins, road dividers, boats, septic tanks, flower pots, feed carts, calf hutches, outdoor toys, cool boxes (ice boxes), utility handling carts and more. The granules and powder are produced using imported roto grades of polymers from major polymer producers, ensuring the highest quality in every batch.

With BRiL-LENE, you're not just getting a product – you're getting a partner dedicated to your success. Choose BRiL-LENE for quality, reliability and peace of mind in your manufacturing processes.

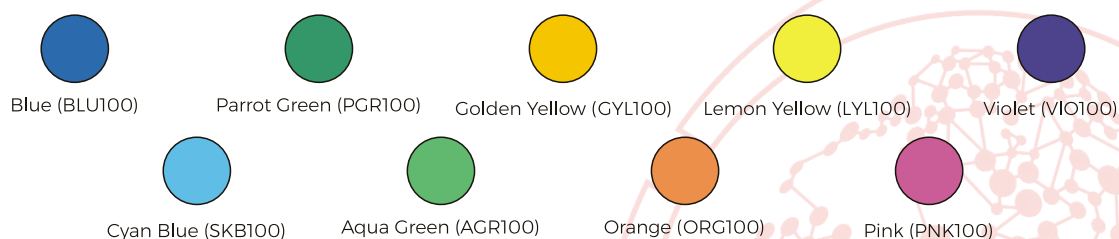
### ANALYSIS RESULTS OF LLDPE ROTO COMPOUND

GENERAL PURPOSE GRADES	PROPERTIES	TEST METHOD	UNITS	VALUE
	DENSITY @ 23 C	ASTM D1505	Gm/cm <sup>3</sup>	0.92
	MELT FLOW INDEX (2.16kg, 190 C)	ASTM D1238	G/10min	4.2
	Tensile Strength @ Yield (50mm/min)	ASTM D638	MPa	17
	Elongation @ Break (50mm/min)	ASTM D638	%	20
	Flexural Modulus*	ASTM D790	Kg/cm <sup>2</sup>	6,000
	Notched IZOD Impact Strength*	ASTM D256	kg.cm/cm	25.0
	ESCR (F-50,10% igepal)	ASTM D1693	Hrs	>350
	Hardness	ASTM D2240	D	55
	Vicat Softening Point	ASTM D1525	°C	117
Light Fastness	ASTM D4303	1- 8 scale	7-8	

### CUSTOMS ROTO GRADES

Different rotomoulding applications often require specific grades of material. We specialize in producing customized grades by compounding various materials and adjusting the grinding specifications as needed. For instance, if you need a material that is both very stiff and flows well, we can create a high-density grade with a high melt flow. Additionally, we can modify the grinding specification to enhance processing performance.

#### STANDARD COLOURS\*



\*Colours are for reference only. Please check an actual sample before purchasing.

## STONE EFFECT ROTO COMPOUNDS

Enhance your products with marble-effect rotational moulding compounds, BRiL-LENE is proud to offer stunning range of marble and granite finishes in LLDPE compounds tailored for rotational moulding applications. Our marble-effect rotational moulding compounds are designed to add a touch of elegance and sophistication to a variety of products, offering unique effects such as granite, marble and sparkle finishes. Discover the endless creative and functional possibilities of stone-effect rotational moulding compounds. Our unique roto compound technique transforms ordinary surfaces into luxurious marble masterpieces, adding a touch of sophistication to any space.



### MARBLE EFFECT COLOURS\*



Grey stone  
(MSG100)



Beige Stone  
(MBES100)



Blue Stone  
(MBS100)



Red Stone  
(MSR100)



Apple Green Stone  
(MAGS100)



Black Stone  
(MBLK100)



Brown Stone  
(MBRS100)



White Stone  
(MWS100)

\*Colours are for reference only. Please check an actual sample before purchasing.

## ROTATIONAL MOULDING

Foaming agents are additives which release gas through chemical reactions or thermal decomposition. This gas creates cell structure in the polymer matrix. Further, the foaming agents are of two types-Exothermic blowing agent and Endothermic blowing agent. BRILSOL has developed foaming agent powders based on Exothermic blowing agent.

This blowing agent is properly dispersed in a polyolefinic resin along with some specialty chemicals which helps in creating a very fine cell structure in Rotomoulded LLDPE tanks. Since our foaming agent is in powder form thus sparing the cost of pulverization otherwise borne by the customer.



Bases of Comparison	BRILFoam Prime (3X)	BRILFoam Ultra (5X)
Processing window	Narrow : Ranges between 180 degree - 200 degree	Wide : Ranges between 190 degree - 220 degree
Cell structure	Fine	Much finer
Heat Insulation	Good	Excellent
Thickness	Good	Excellent
Impact strength	Good	Excellent
Colour	Yellowish pulverized powder	Pure white pulverized powder

### APPLICATIONS

- Rotomoulded LLDPE tanks, Underground Tanks, Ice Boxes, Pallets, Fish Boxes.
- Marine equipments such as kayak, surfboards, floaters, boats.
- Toys, Vehicle body, Materials handling.
- Infrastructure - road barriers, temporary housing, cabins.



## 1. ROTO RELEASE AGENT

Roto release Agent is a "ready-to-use" release agent, forming a consistent release film on the mould.

- Despite the film being micro thin, it stays impervious after cure, even to abrasive materials and temperature fluctuations as high as 450°C.
- Roto release Agent forms a strong chemical bond to most mould materials thus providing multiple releases per application.
- Additionally, the Release Agent does not transmit to the moulded parts, facilitating further processing like varnishing or gluing without the need for subsequent treatment.
- There is substantial reduction in build-ups on the moulds caused by depositions of pigments, anti-aging agents, resin residues etc.
- A build-up caused by Roto release is unlikely, if it is used as directed.
- Another feather in the cap is its compatibility for both polyethylene and polypropylene types. As mentioned above, it provides multiple releases per application.



- The appearance of pin holes is a common challenge faced during operation. This has also been tackled effectively as there is minimum residue on the mould surface thus reducing pin holes drastically.
- Roto release will never be rough on the mould surface and so the luster of the mould will be retained throughout.

For your reference, the technical data of Roto release Agent is as follows:

<b>Composition</b>	Solution of synthetic resins
<b>Appearance</b>	Colorless liquid
<b>Density [g/cm<sup>3</sup>]</b>	Approx. 0.95
<b>Flashpoint [°C]</b>	75

## 2. ROTATIONAL MOULD CLEANER

**Solvent-Based Options:** Our cleaners come in solvent-based formulations tailored for the rotational moulding process specific requirements.

- **Ready-to-Use Convenience:** BRIL's Rotational Mould Cleaners are available in a ready-to-use form, allowing easy application directly onto mould surfaces for utmost convenience.
- **High-Temperature Endurance:** Crafted to endure high temperatures, these cleaners are versatile and effective in various rotational moulding processes.
- **Compatibility with Plastic Types:** BRIL's mould cleaners are compatible with a broad spectrum of commonly used plastic types in rotational moulding, providing flexibility in application.
- **No Transfer to Moulded Parts:** Our cleaners leave no residue on moulded parts, enabling subsequent processing like varnishing or gluing without the need for additional treatment.
- **Residue Minimization:** Designed with precision, these cleaners minimize residues on mould surfaces, ensuring consistent and reliable outcomes throughout the rotational moulding process.



Incorporating regular cleaning of moulds with BRIL's Rotational Mould Cleaners into your maintenance routine enhances productivity, reduces waste and achieves uniform results in all your rotational moulding projects. Trust BRIL's Rotational Mould Cleaner for a cleaner, more efficient moulding experience.

### 3. ADHESIVE REMOVER

**A solution for removing sticky residue from rotational moulds.**

- Crafted with a potent blend of solvents for effortless removal of stubborn adhesives.
- Designed to dissolve glue and remnants from mould surfaces and pre-mould labels.
- Streamlines the removal process, making it significantly more manageable.
- Leverages organic solvents to dissolve resistant adhesive polymers.
- High-strength industrial formula ensures swift dissolution without compromising mirror coating.
- User-friendly and safe for pre-mould graphics.
- A reliable choice for maintaining the longevity and pristine appearance of rotational moulds.
- Remember to read instructions and conduct a preliminary test before full-scale use.
- Choose BRIL's adhesive remover for efficient adhesive sediment removal tailored to your unique needs.



# ACCESSORIES :

## 1. GRAPHICS ROLLER

Your Ultimate Solution for Pre-Mould and Post-Mould Labels Discover the power of precision with BRIL's graphics roller – the go-to tool for both pre-mould and post-mould label applications. Crafted with meticulous attention, this hard rubber roller ensures a stronger seal, eliminating air pockets professionally. It excels in smooth, easy rolls without reacting to adhesives.



### Key Features:



#### High-Quality Construction:

Perfectly machine-ground 70 shore EPDM rubber roller for durability and consistent performance.



#### Robust Build:

Aluminum core, self-lubricating nylon bearings, continuous steel shaft, and rigid steel brackets for unmatched strength.



#### Versatile Design:

Tailored for pre-mould and post-mould labels, adapting seamlessly to various tasks for high-quality results.



#### Practical Handle Design:

Unbreakable polypropylene handle with a hanging slot for easy storage and a stable base for precise rolling.



#### Back Rest:

Provision to rest the roller after usage ensures the rubber doesn't come in contact with unwanted particles.



#### Industrial Strength:

Built to endure rigorous industrial use, meeting demands in diverse settings.

### Available in Two Sizes:

<b>2-Inch (50mm) Roller</b>	Dimensions - 206 × 92 × 48 mm
<b>4-Inch (100mm) Roller</b>	Dimensions - 206 × 116 × 48 mm

Choose the size that suits your needs and experience efficiency and reliability. Invest in precision, durability and versatility – choose BRILSOL for your graphic rolling needs.



## 2. PENGUIN OTOFIL CONTROLLER

### Your Solution to Water Woes!

Tired of over-flowing water tanks and water level worries?

Introducing Penguin Otofil water level controller by Team Brilsol. A Comprehensive solution for water-related concerns.



### Why consider a water level indicator?

Otofil water level controller prevents over-flow and exhaustion of water. Ensures tanks are always at optimal levels.

### Mechanics of the water level controller:

Sophisticated mechanical setup senses water levels and communicates to a control switch panel. Control panel signals the pump to start or stop, reducing manual effort.

### How does it work?

Water level sensor communicates with the control switch panel. Automatic activation or deactivation of the motor prevents over-flow. Option to install a device with the sump tank prevents dry run.

### Advantages of Penguin Otofil:



Easy installation



Smart design



Water saving



No seepage



Energy-efficient



cost-effective



Contributes to water conservation



Durable & No maintenance

Choose Penguin Otofil for reliable, efficient and worry-free water management. Experience automation and bid farewell to water-related hassles.





### 3. TANK FILTER

#### Precision Filtration Technology

This cutting-edge filter eliminates dust, sand particles, micro-organisms and sediment from your water supply, ensuring optimal performance for showers, taps, faucets, washing machines and purifiers. The Penguin 'Tank Filter' stands out with its Disc Filter technology, offering exceptional performance and easy maintenance.

We offer two types of Disc Filters to meet specific needs:

#### T-type disc filter (Model: O50TD)

- Diameter: 1-1/2 inch
- Filter Mesh: 120
- Weight: 0.980kg



#### Y-type disc filter (Model: O32YD)

- Diameter: 1 inch
- Filter Mesh: 120
- Weight: 0.380kg



Ideal for domestic water filtration systems and critical water filtration scenarios, these filters feature a sturdy base and lid made from technical thermoplastic for maximum quality and safety.



## 4. AIR VENT

### Let Your Tank Breathe

Air vents are essential components in plastic water tanks, playing a critical role in preserving the tank's structural integrity and ensuring optimal performance. They facilitate proper air circulation, preventing pressure build-up that could lead to cracking and leaks.

The absence of an air vent in a plastic water tank can lead to harmful bacterial accumulation, making the water unsafe for consumption. BRIL's Air Vent, designed with precision and manufactured using cutting-edge technology, meets industry standards.

Suitable for various ventilation systems, including Water and Chemical Storage Tanks, as well as applications in the Food and Beverage Industry, these vents come in different sizes to meet diverse requirements.

### Key Features:



#### Easy Installation:

Designed for user-friendly installation.



#### Extra Long Fittings:

Accommodates wall thicknesses from 10-15mm for various tank structures.



#### UV Stabilization:

Offers durability and longevity in outdoor environments.



### Sizes Available: 1 inch and 2 inch

BRIL's Air Vent ensures the proper functioning of water tanks and contributes to maintaining the quality and safety of stored water, making it a reliable solution.

# GROUP OF COMPANIES

- **SHYAM SUNDAR CORPORATION**

Roto Moulding Division - DURGAPUR (W.B)

- **SHYAM SUNDAR POLYMERS PVT.LTD**

Custom Roto Moulding Division - DURGAPUR (W.B)

- **SHYAM SUNDAR METAPLAST PVT.LTD**

Bath fittings, Garden Pipes & Solar Geyser Division - DURGAPUR (W.B)

- **FLEXI PLAST INDIA**

Roto Moulding Divison - AMRELI (GUJARAT)

- **PHENIX SPINNING PVT.LTD**

Textile Division - AMRELI (GUJARAT)

- **COARSER SPINNING PVT.LTD**

Textile Divison - AMRELI (GUJARAT)





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