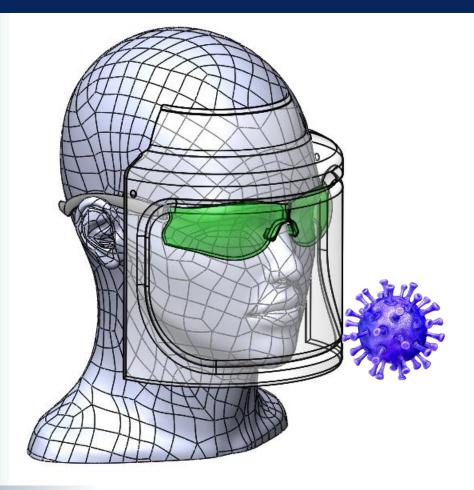
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Safety Mask Made from Recycled PET Bottle.







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Main Project Concepts.

- Replacement of low-scale 3D printed masks, or home-made.
- Replacement of imported product of high cost or difficulty of acquisition.
- Taking advantage of the mechanical capabilities of the recycled PET resin.
- Use of existing preform tooling.
- Solution suitable for low-scale to high-speed manufacturing with manual or robotized processes.
- Use of installed capacity throughout the country for the manufacture of water bottles of various scales.
- Immediate technical feasibility.
- Low cost of blow mold tooling.
- Deployment on an industrial scale in a few days.
- Technical Partnership MDT + Preform makers + Bottle or drinks manufacturers.



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Face mask project



- Requirements
 - Provision of a simple and low production cost device.
 - Taking advantage of the productive resources of other non-healthcare focused industries.
 - Product suitable for production on an industrial scale.
 - □ Scalability at country or region level.
 - Low tooling investment.
 - Use of existing materials originaly intended for other uses.
 - □ Single use, fully disposable.



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Design parameters:



- Ergonomic Requirements.
 - □ 100% facial coverage.
 - □ Separation of the protective shild from fase.
 - □ Space for the use of safety glasses.
 - □ Adaptability to different head sizes.
 - □ Effective fixation to the head.
 - Removing with one hand.
 - Light.
 - Cristal clear.



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Design parameters:



- Resin Preform Blown.
 - □ Preferred use of Post-consumer PET (PCR)
 - □ Clear resin.
 - □ Target weight 83g.Available weights 94g, 148g
 - (search for optimal thicknesses for the function).
 - □ Target weight 58g fo the 3L versión.
 - Preform injected under food grade conditions.
 - Blown in any machine suitable for 6L bottles.
 - Low blower process capacity requirement.
 - Geometric profile that prioritizes the distribution of resin and transparency.



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Safety Mask Made from Recycled PET 6L Bottle.



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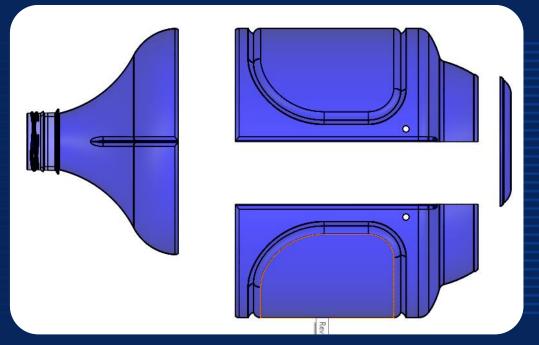
Proposal for a single piece PET solution:



Produced by Moldintec SRL – This information is provided as-is and could be uncompleted. Please check if you have the lasted version. Please share and collaborate with us.

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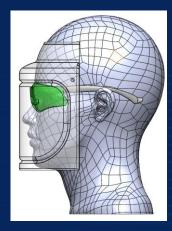
Linear cutting process.



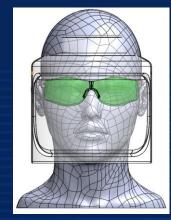
- From the blowing process, marks are made where the cuts must be made.
- The cut can be done with scissors.
- Cutting can be industrialized using blades or hot wire *process used for sectional cutting of PET bottles.



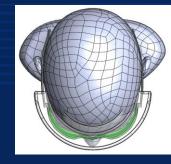
Proposal for a single piece PET solution:

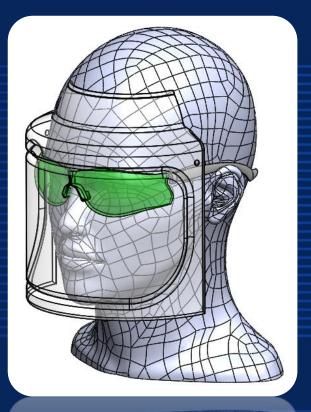


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Mounted safety mask with safety glasses.

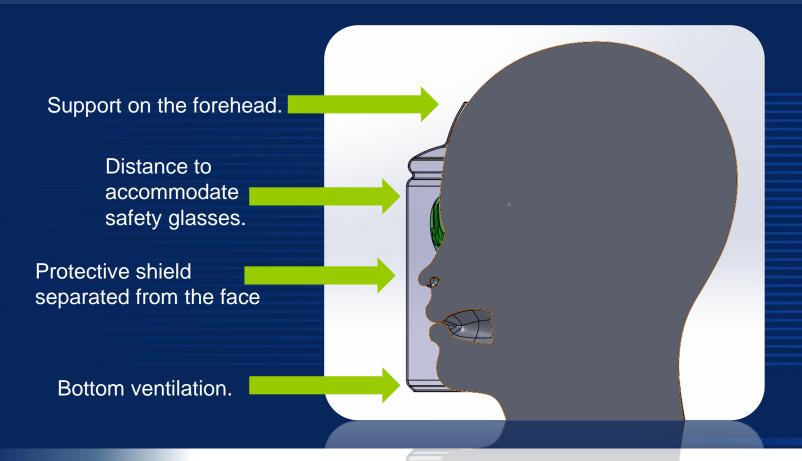






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Proposal for a single piece PET solution:

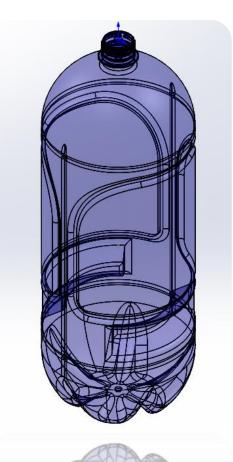




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Safety Mask Made from Recycled PET 3L Bottle.





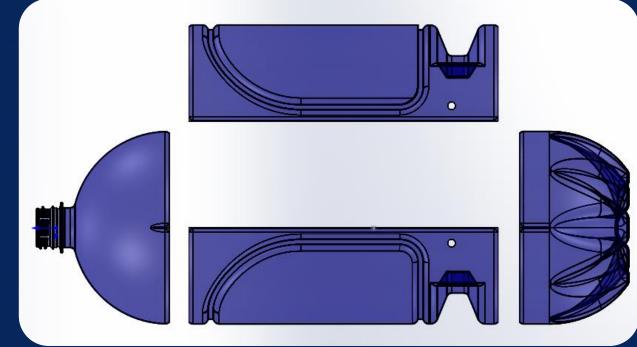
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Proposal for a single piece PET solution:





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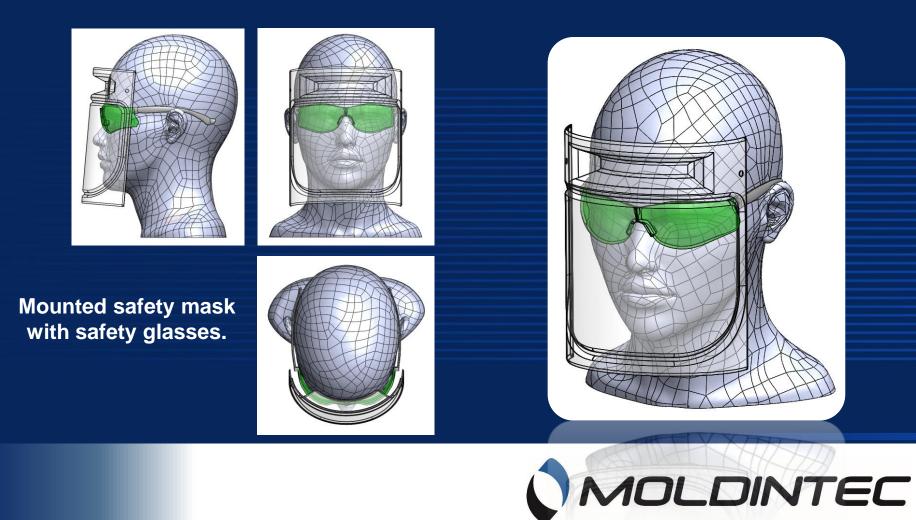


- From the blowing process, marks are made where the cuts must be made.
- The cut can be done with scissors.
- Cutting can be industrialized using blades or hot wire *process used for sectional cutting of PET bottles.



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Proposal for a single piece PET solution:



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Safety Mask Made from Recycled PET Bottle.

MUCHAS GRACIAS Muito Obrigado Thank You Very Much Merci Beaucoup Veilen Dank

