

Ma-Re-Charge

Student: Dean Chaban



Ma-Re-Charge is a rechargeable shower bottle system designed to replace single-use plastic packaging.

It consists of a reusable outer bottle and a replaceable inner bottle, reducing material use and environmental impact over multiple refill cycles.

Made from mono-material PE, the system improves recyclability and reaches its environmental break-even point after two refills.

The disc cap enables one-hand operation and a leak-proof, travel-safe closure. Designed with a minimal and timeless aesthetic, Ma-Re-Charge integrates into both home and retail environments and supports refill-based care products.



Ma-Re-Charge

Dean Chaban 2026



Ma-Re-Charge

Sustainable rechargeable packaging concept

A minimal aesthetic that fits both home and retail environments.

Ma-Re-Charge is a rechargeable shower bottle which can be used for shampoo, conditioner or body wash.

Dean Chaban

LCA



0,2 0,2 0,2

3 single-use bottles = 0.60 kg CO₂e



0,26 0,1 0,1

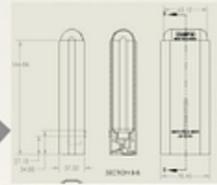
Ma-Re-Charge system:
1 parent + 2 child refills = 0,46kg CO₂e
-break-even



- Reuseable for several times
- 100% Mono material
- 100% Recyclable
- Volume of 330ml
- One-hand operation
- travel safe

Only the inner bottle needs replacement, reducing material use.

Technical Drawing



Inner bottle

- Material: PE
- Production Method: Injection Blow Molding

Outer bottle

- Material: PE
- Production Method: Injection Molding

Can be used for:

- Bodywash
- Conditioner
- Shampoo

Retail



Disc Cap





0,26 0,1 0,1

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for further information or contact:
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