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Travellers Toiletries

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ABSTRACT

Travellers Toiletries is a travelling container with different compartments that can store soap, shampoo and other types of toiletries such as toothbrushes. This product was made to overcome the difficulties faced by travellers whenever they wanted to bring along their toiletries. In a recent survey we have done, it is found that many people face trouble with bringing along their toiletries as many soap and shampoo bottles are too large to fit inside their luggages or travelling bags. Travellers Toiletries is made out of High-Density Polyethylene (HDPE) because it is highly durable, lightweight and easily recyclable, which contributes to waste reduction and helps protect the environment. Additionally, it also includes a handle on the top made out of liquid silicone rubber (LSR) to make carrying it much easier. This way, travellers won't have any issue bringing along their toiletries during travels to maintain their hygiene.

Keywords: travellers toiletries; container; durable; lightweight; hygiene.

1. INTRODUCTION

Emerging trends in global travel indicate a shift towards more sustainable practices, with a rising demand for products that align with these values. Recent studies, such as those presented by ŞENYAPAR in 2024, show that we are indeed living in what can be termed 'post-inconvenient times,' where consumers increasingly demand products that do not sacrifice convenience for sustainability (Durmuş Şenyapar, H. N, 2024). Travellers Toiletries is the ideal companion for travellers, designed specifically to cater to the modern traveller who seeks both convenience and a commitment to environmental sustainability. Our unique product set includes multiple reusable containers that can be used to store multiple types of toiletries. This not only simplifies your travel routine but also significantly reduces environmental impact, echoing the growing demand for green products in an era where ecological concerns are paramount.

Travellers Toiletries not only meets the practical demands of maintaining personal hygiene on the move but also respects and enhances the travellers' desire to uphold their environmental values. By simplifying the packing process and eliminating the need to compromise between quality and sustainability, our toiletries set a new benchmark in travel-related products.

2. METHODOLOGY

This product is equipped with several user-friendly features, including a handle integrated into

the product's body. We use strong and soft material on the handle side of our products, which is liquid silicone rubber (LSR) so that users feel comfortable and make it easier for users to hold them. Liquid silicone rubber (LSR) is favoured for its skin-safe properties, durability, flexibility, and soft texture (Casco Bay Molding, 2016).

Furthermore, our product bodies are made from High-Density Polyethylene (HDPE) with 13 cm height and 8 cm width. We chose HDPE because it is a robust and durable plastic that is also eco-friendly. It falls into the SP2 category, which means it is safe for use in bath gel containers, shampoos, and other cosmetic products. Our products consist of three main sections which are bath gel, shampoo, and conditioner. Additionally, the bottom of the shower gel and shampoo section features an extra compartment for storing other small bath items.

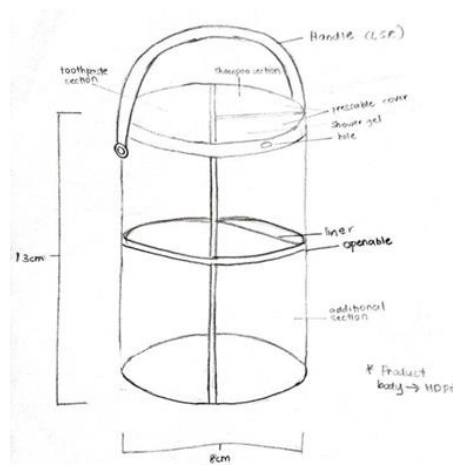


Figure 1. Traveller toiletries design

3. RESULTS AND DISCUSSION

3.1 Relevance of the invention

Travellers Toiletries are relevant to the problems faced by travellers when it comes to bringing bottles of toiletries. It is because of the bottle's design that people find it space consuming when travelling. This product helps to address this problem by its travellers friendly feature. This product features including its small size to fit inside a traveller's bag pocket, minimising the use of storage space. There is also its feature where three different compartments were built in one bottle to fit three different body hygiene products. This helps travellers to have more spare space to fit other important things for their travels plus its built-in strap to make it easier to carry around. This product is very simple and easy to use.

3.2 Contribution to environment or society

Travellers Toiletries contribute to the environment with its eco-friendly material. This product also helps to reduce the manufacturing of toiletries bottles where usually a traveller has to have three different bottles for their body hygiene products or even more. Travellers Toiletries also contribute to the society by helping them to reduce the occurrence of garbage disposal as well as reducing our environmental pollution, promising a better quality of environment for the society.

4. CONCLUSION

In conclusion, Travellers Toiletries would be a product that is beneficial for many people as it makes it easier for them to bring along their toiletries. The market potential for our product is high. In a recent survey, we have found that many people around the age of 19 have trouble with packing their toiletries for travelling [3]. Our product will be highly sought after by them and also by those that take care of their hygiene. Future improvement that could be done is making the smaller versions to fit different needs for travellers.

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