# DESIGN AND SUSTAINABILITY





'Design' has the power to scope the whole lifecycle of a product.

The design stage of packaging is where critical choices are made that affect the lifecycle of the product.

Packaging has to fulfil a number of functions,

from the basic shape design, through

to ergonomics, brand space,

product protection, economical

production and multiple other functions that all

will help fulfil the

overall task of

the product.



Incorporating sustainability has become an important aspect of the design stage and can lead to minimising the environmental impact while still satisfying the needs of the customer and consumer throughout the supply chain.

## HOW CAN YOU DESIGN PACKAGING WITH SUSTAINABILITY IN MIND?

#### **CARBON EMISSIONS**

Designing the product or packaging to be lighter reduces the <u>carbon emissions associated with resource</u> and transportation.



#### **RECYCLING**

Designing for recycling is complex as systems vary locally. Limiting packaging to one material if possible and making sure that material is widely recycled in the locality it is sold is important.



#### REUSE

If you a design a product to be reusable it increases its consumable life and it's less likely to be littered or landfilled.



#### **PROTECTION**

Designing packaging that protects products means less food and product waste, reducing associated carbon emissions and water use.

# RPC STRIVES TO USE DESIGN TO **INFLUENCE SUSTAINABILITY**



RPC strives to design products to enable positive environmental impacts throughout the supply chain; reducing our energy impact, reducing our water usage, preventing food or product waste and increasing the



## A checklist for design criteria might include:



- Can we reduce the number of materials used
- Can we use recycled material in the product?
- Can the product be reused or repurposed?
- Are there alternative materials we could use
- Can we integrate ideas such as portion control or resealability?
- Are the materials used widely recycled?



What similar products are out there



• Do these sustainable ideas adversely affect

products. Designing sustainable products requires a balance between innovation, capability, ease-of-use, and an ability to be recycled.







completely opaque, yet breathable. This eliminates light rays in order to protect products, preserve their freshness and quality, and deliver extended shelf-life.

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