





Every product in the world was designed to have a shape, color, material & finish.

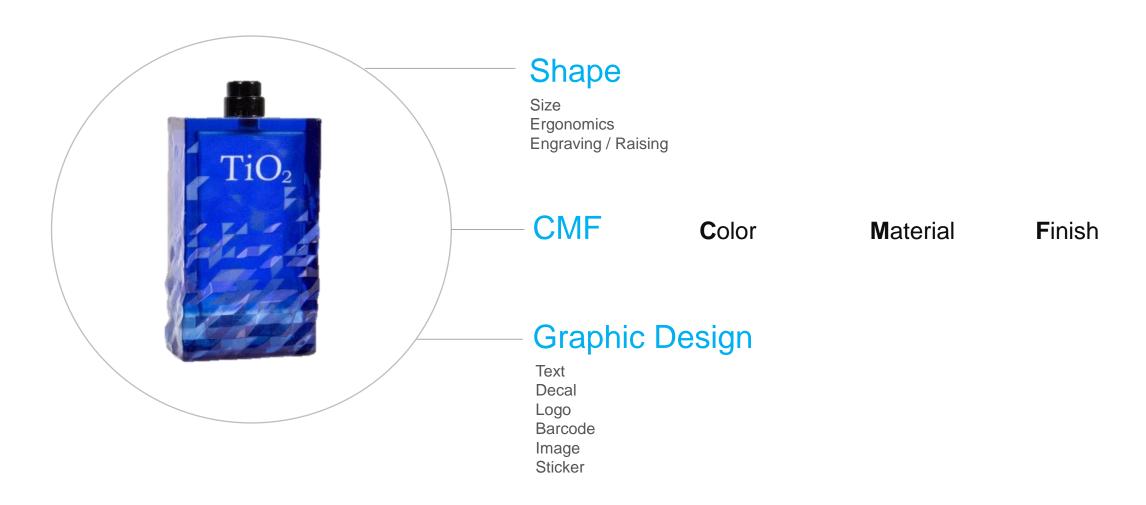
The better the CMF, the higher the perceived value of the product.

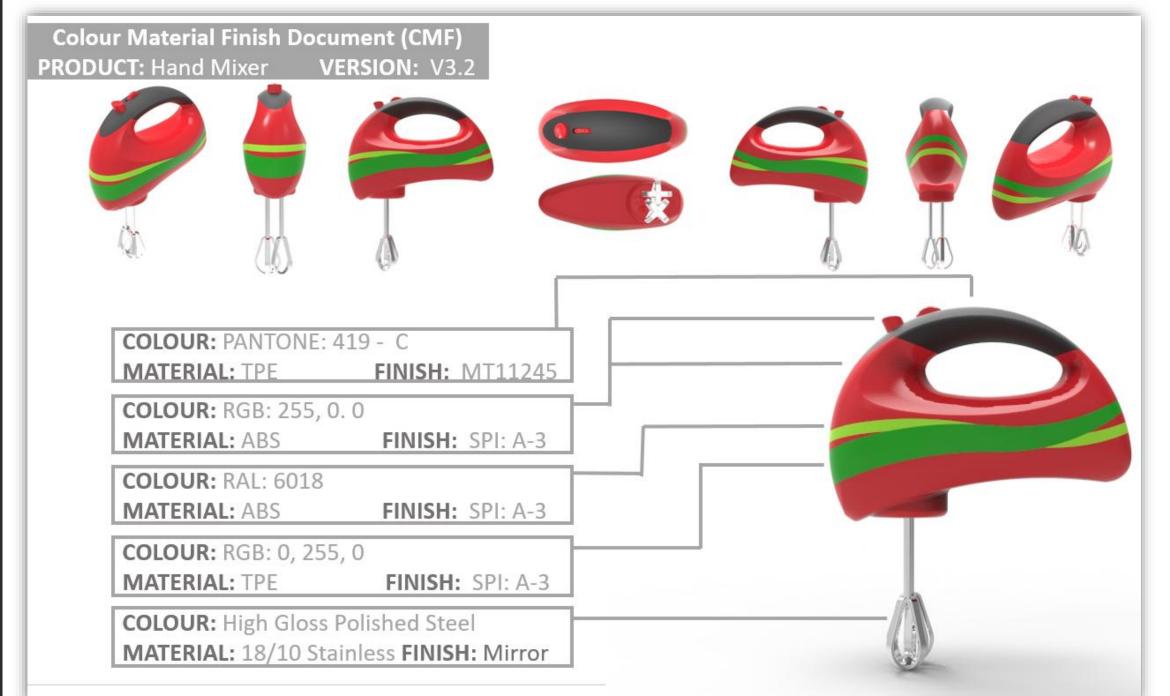
Design-Oriented companies invest time and money in refining their CMF.

A shape is "Easy".
"Look and Feel" is the hardest part.

WHAT IS CMF?

WHAT PRODUCT APPEARANCE IS MADE OF







GarbCAD Print

J-Serie / Stratasys PolyJet

Product / Prototype

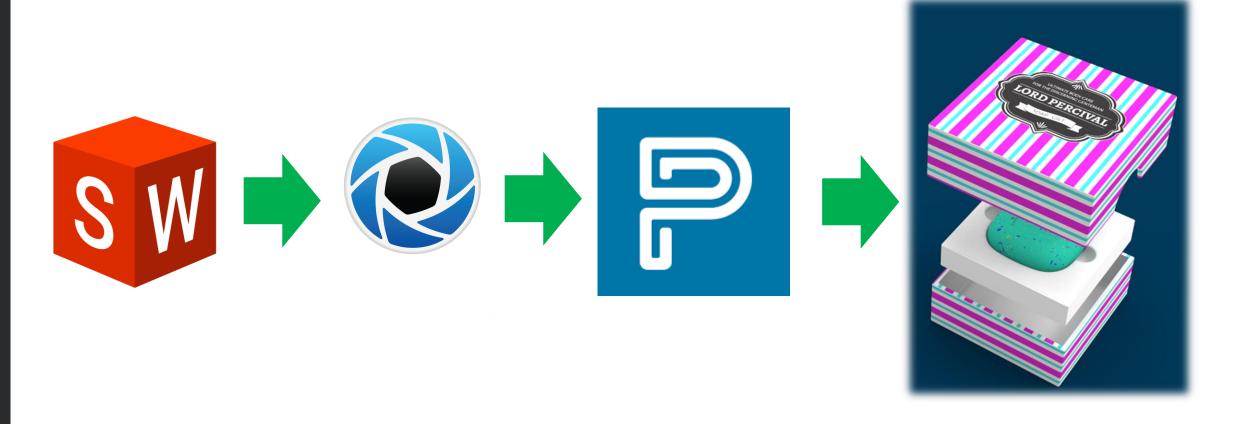
Assignment Type	How	File Type
Base Material		
Digital Material		Native CAD & Mesh
Direct Color Assignment	ASSIGNED IN GCP	(STL, WRL, OBJ,
CMYK		3MF)
Pantone		
Texture (Imported to GCP)	Design Software	WRL, OBJ, 3MF

One Option (best for engineers) is



Softwa	are Type	Software Name	Vertex Paint	Basic Projection	Basic UV Control	Full UV Control	Notes
	015	Siemens NX					Good For Basic / Engineering requirements labeling,
C	AD	Solidworks					face / body colors, some texture capabilities
Hok	obyist	Paint 3D					Whole body vertex paint. Limited texture "stamp" Microsoft canceled this tool by 01.11.2024
		Magics					Fast and Easy (Limited UV Mapping & Render Capabilities)
	Most Popular Choices	Keyshot					Best for Engineers. Powerful / Simple feature set. Easiest to pick
Citi		Rhino					Powerful tools lots of tutorials online (complex interface)
		Blender					Advanced with lots of online resources (complex and confusing to learn)
Industry	ning The Designer ndard	Adobe Substance					The one to watch. Adobe integration. Powerful materials creator. 3D Integration WIP (Photoshop replacement)
		Z-Brush					Geared towards digital sculpting (Figurines)
Scu	Sculpting	3D Coat					Can do volumetric texturing, Advanced texture feature set
y Advance	Advanced Design	Maya					Lots of tools. More for the creative digital arts: games,
Advance Anima		3DS Max					animation, FX
Anima	Animation FX	Houdini					Advanced packages built for animation and physics
Allilla		Cinema 4D					simulation (Houdini as v complex)

Example: Luxury Packaging



Luxury Hand Soap Packaging Overview

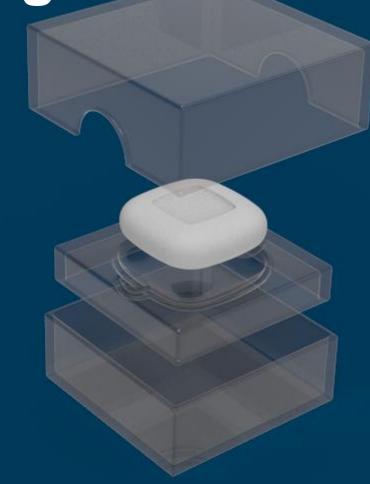








Soap				
Color	Material	Finish		
Solid Turquoise with colorful speckles	Glycerin, gin fragrance oil, tonic fragrance oil, green mica powder, blue mica powder, juniper berries, lime fragrance oil	Hard Matte luster		
Lord Percival <u>deboss</u>				



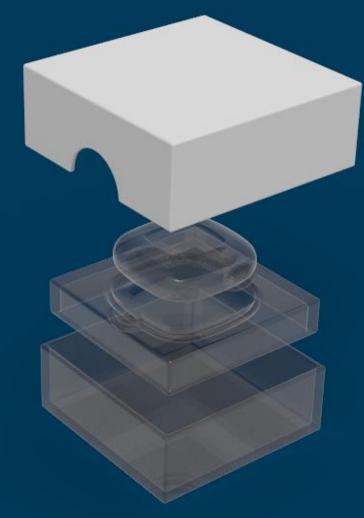
Luxury Hand Soap Packaging

CMF Requirements

Box Lid			
Color	Material	Finish	
Candy Stripe (Printed Outside Only)	24pt Cardstock	Matt Aqueous Coating	
Product Label	Paper Sticker (0.0254mm / 4mil)	Glossy	





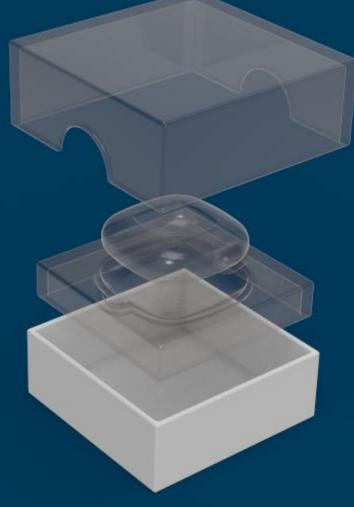




Box Base			
Color	Material	Finish	
Candy Stripe (Printed Outside Only)	24pt Cardstock	Matt Aqueous Coating	
Product Barcode & details label	Paper Sticker (0.0254mm / 4mil)	Glossy	



Lord	Lord Percival - Gin & Tonic Scented Soap		
Ingredients	Glycerin, gin fragrance oil, tonic fragrance oil, green mica powder, blue mica powder, juniper berries, lime fragrance oil		
Nt. Wt.	50Z		
Made with	Made with pride in Scunthorpe, North Lincolnshire, England		

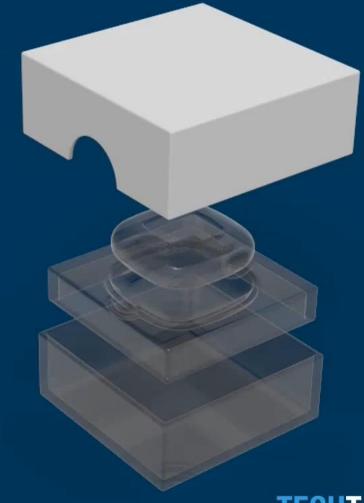


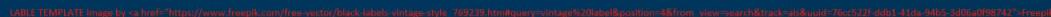
How to DO Video Tutorials (4)

Luxury Hand Soap Packaging

CMF Requirements

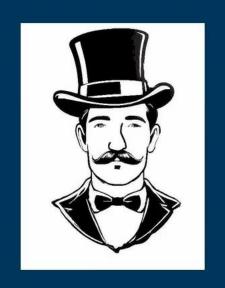


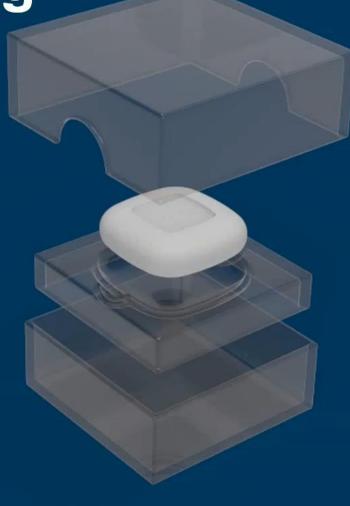








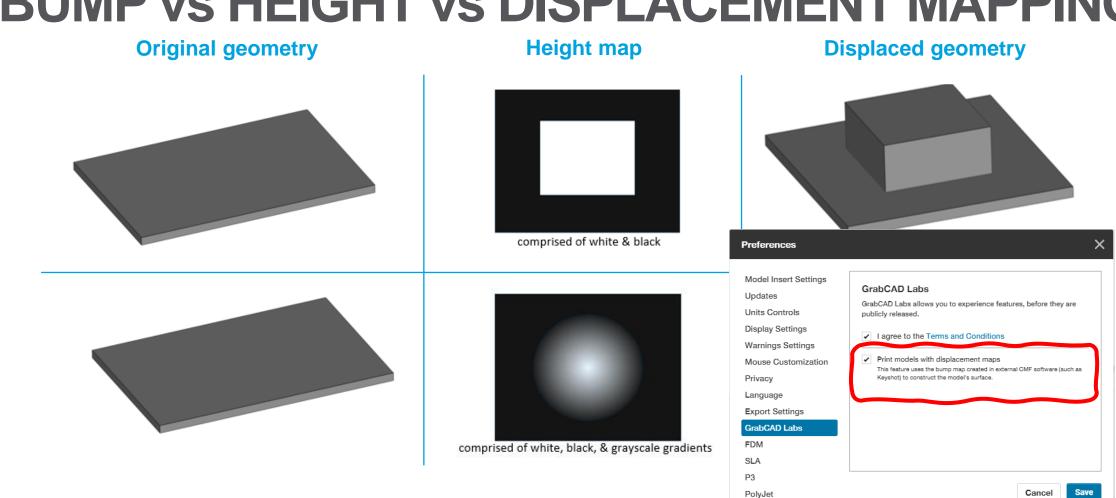




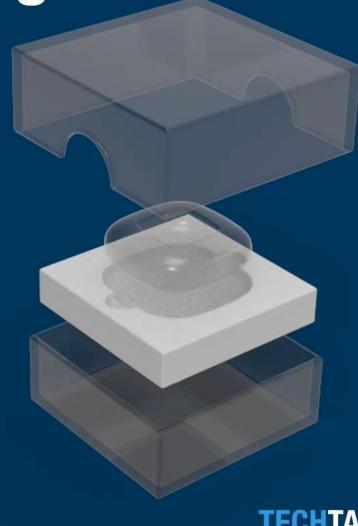




BUMP vs HEIGHT vs DISPLACEMENT MAPPING



MT-11020





Lord Percival - Gin & Tonic Scented Soap

Ingredients

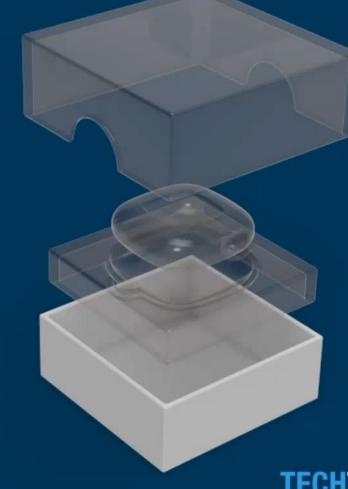
Glycerin, gin fragrance oil, tonic fragrance oil, green mica powder, blue mica powder, juniper berries, lime fragrance oil

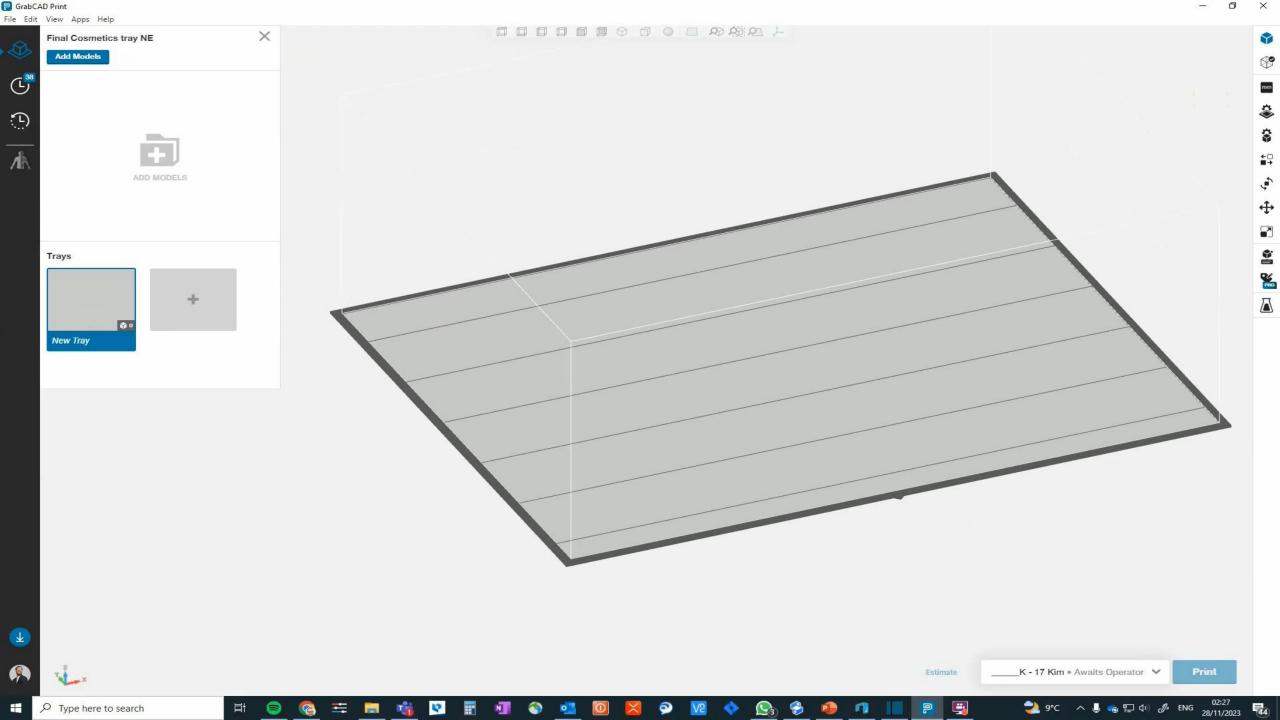
Nt. Wt.

50Z



Made with pride in Scunthorpe, North Lincolnshire, England





Post Processing

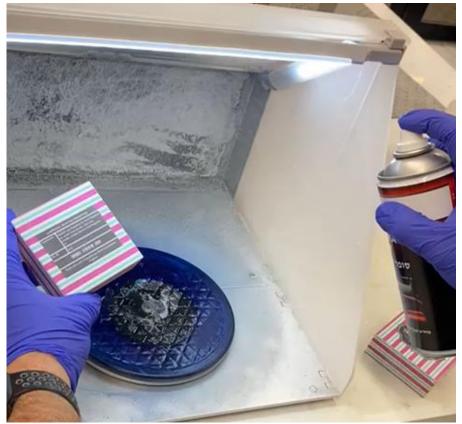












Coarse Blast (RED)
Aluminum Oxide 200um

Fine Blast (WHITE)
Glass Beads 40 -70um

Automotive plastic protectant spray & Wipe off with a cloth

Post Processing



1	Use an Orbital Sander (4")
2	500 grit (with water)
3	1500grit (with water)
4	3000grit (with water)
5	6" Automotive polishing wheel
6	1 step 3M compound
7	Dremel Polishing for raised text

3M™ Perfect-It™ 1-Step Finishing Material

Options available | Select product options for IDs. 0.0 (0)

Details Typical Properties Resources Reviews





The End Product























Thank You