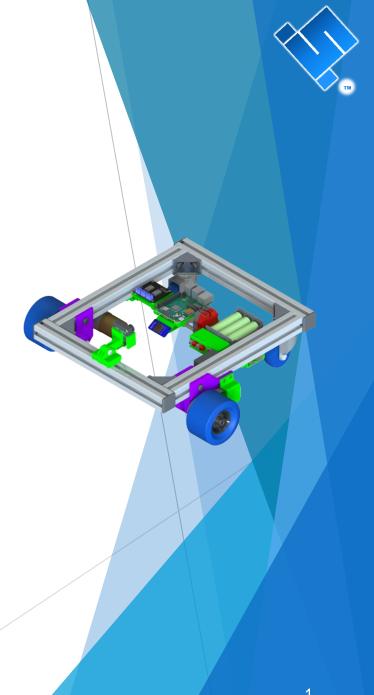


# SCUTTLE Rendering Guide

Revision 2023.05.27



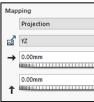
### In this Guide:

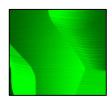


- 1. SUMMARY of key points
- 2. Color selection
- 3. Appearance & Lighting settings files
- 4. Texture mapping for Render
- 5. Achieve 3D-Printed look









### SUMMARY for reference:



### Material File

- Example: green-pw-mt11050.p2m
- · Commonly stored with your assembly
- Contains colors/textures within

## Appearance File

- · Need to explore
- · Can be carried by Material

## Material Favorites

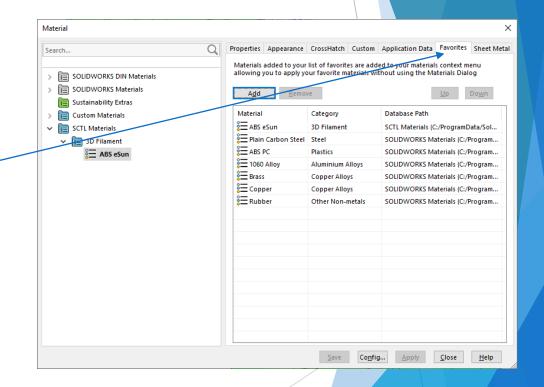
- Find material in feature tree
- Right click ► edit material
- Find the Favorites tab inside the Material dialogue box

### Environment File

- Impacts the rendering but not the part.
- Default location: Program Files\SOLIDWORKS Corp\SOLIDWORKS\data\Images\textures\background
- Example: Kitchen.hdr

### Scene File

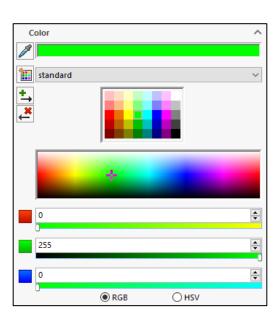
- Carried by environment?
- Example: 11 white kitchen.p2s
- Contains settings for PhotoView360 lighting



### Colors



- Set Material Color:
  - Select material ➤ advanced ➤ color/image
    ➤ Green from standard color swatch:
  - R-G-B = 0-255-0
  - ог
  - HSV = 120, 100, 100

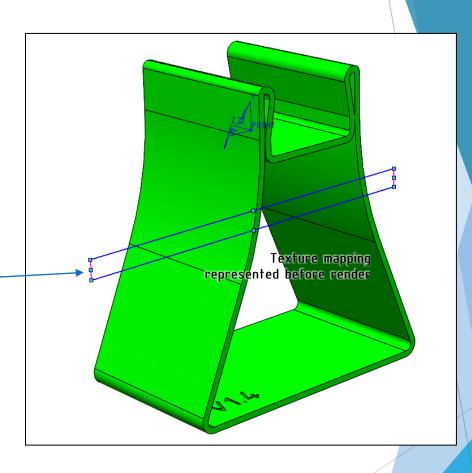


### Handling Textures



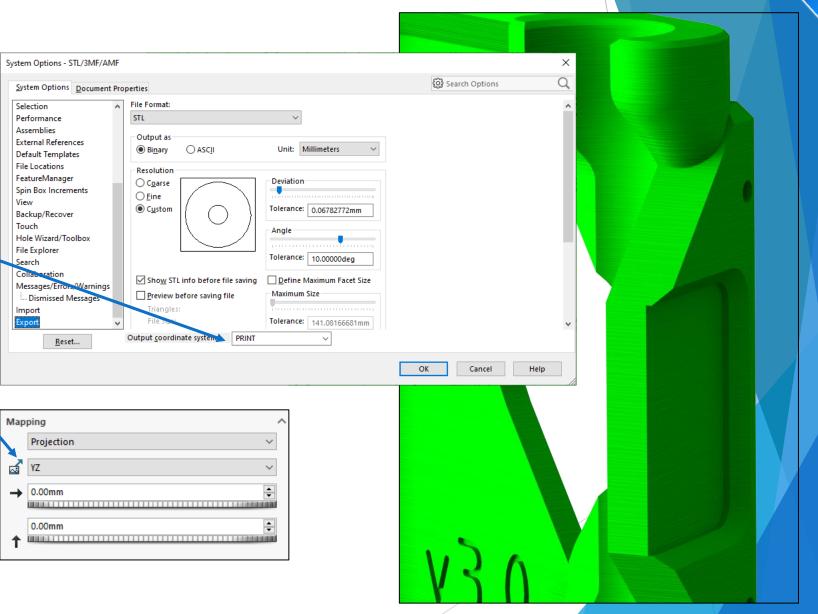
### Settings:

- When you go to the Advanced button ➤ Mapping tab,
- You will see the bounding box described by your mapping settings.
- The blue box describes the plane along which the texture mapping is stretched.
- This box shown corresponds to 6x120mm texture mapping.
- The grain direction is automatically selected.



### Mapping Settings:

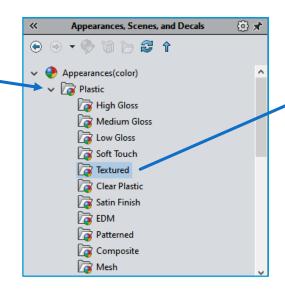
- Before applying mapping, select:
  OPTIONS ➤ SYSTEM OPTIONS tab
  Export ➤Output coordinate system.
- Set export coordinate system to your PRINT coordinate frame.
- Achieve correct direction by adjusting mapping plane.
  - 1. Select projection
  - 2. Select desired plane





### Mapping Settings:

- Find a built-in texture
  - Appearances ➤ Plastic ➤ —
    Textured
  - PW-MT11150 works to start with

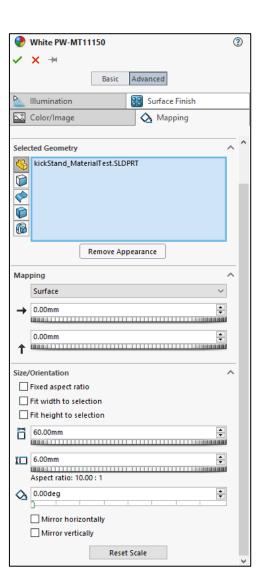




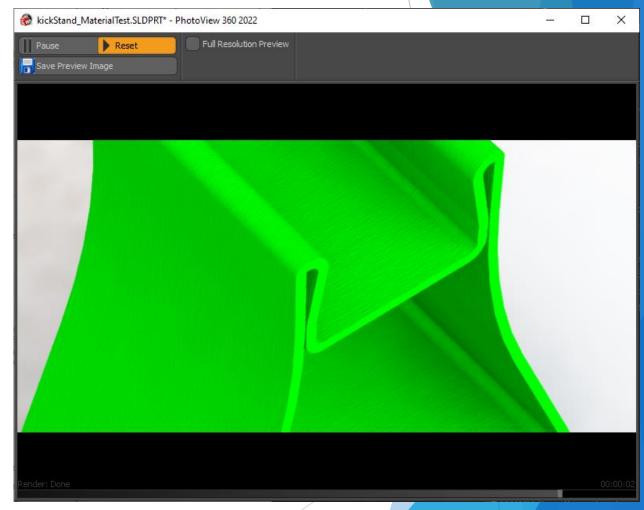


### Mapping Settings

- Adjust the default size of the PW-MT plastic
  - (MT11150)
- Uncheck "fixed aspect ratio"
- Set width to 120mm
- Set height to 6mm



#### Achieve this texture using the texture menu.

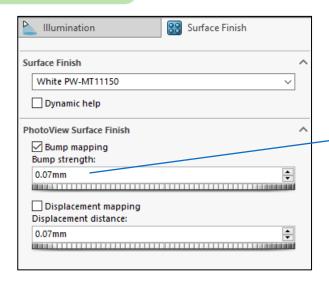


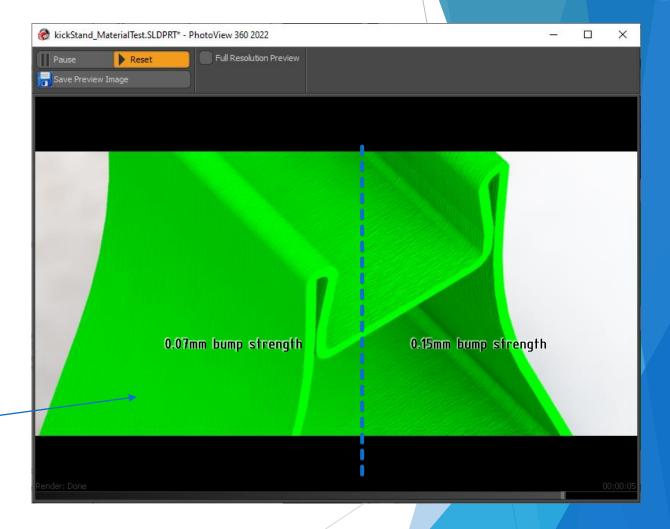


Quick reference after discovering a simple way to handle SOLIDWORKS textures:

#### Mapping Settings ► Surface Finish:

- Leave bumps at 0.07mm height
- This does not affect the model or the STL exported. It only affects the renderings in PhotoView
- We want the height of bumps essentially to match the height of deviations resulting in prints.





Achieve this texture using the texture menu.

### Render Key Points

#### Settings:

- 1. Omit background from your render so the image works nicely on slides
- 2. Omit floor reflections and floor shadows
- 3. Export PNG for good quality and small file size

