

The Seashell Method

For Transmission Distance Calculation

How Does it Work

- Load Documents/HueForge/Tools/Seashell_Test.hfp into HueForge. Then run File->Export STL to save out the STL file and load this file into your slicer.
- Print the Model with your Slicer's HueForge settings at 0.08mm layer height with a 0.16mm first layer. Use any black filament for the first color, then swap to your test color at 0.56mm.
- Save this as a 3mf in your slicer so that you can use it for more colors as needed. Simply adjust what filament is being tested after the swap and run the print again.

How Do I Interpret it?

- Find the image in this PDF that most closely matches your print by looking specifically at the indicated areas for each TD. When in doubt, choose the LOWER TD.
- If you'd like a more exact number you can load the Seashell_Test.hfp file again and adjust the color and TD of the White slider until it matches your Seashell.
- TDs over 10 become more subtle and require experience to interpret.
- This test is good because it also responds to differences in TD based on your print settings in a much less synthetic environment.

LED Light Type: Natural White 4000K | Front Lit

Light Intensity: 1.20 | Back Lit

Blending Type: Filament Painting | Slicer View

General Options and Operations

Remesh | Step Height: 0.040 | Width: 80.00 | Full Range

Wireframe | Layer Height: 0.08 | Height: 75.54 | Transparent

Reset View | Base Layer: 0.16 | Border Width: 4.00 | No Border

Describe | Detail Size: 0.20 | Border Depth: 4.00 | Negative

TD is 1

PLA | PLA+ | PETG | ABS | ASA | CPE

- Owned

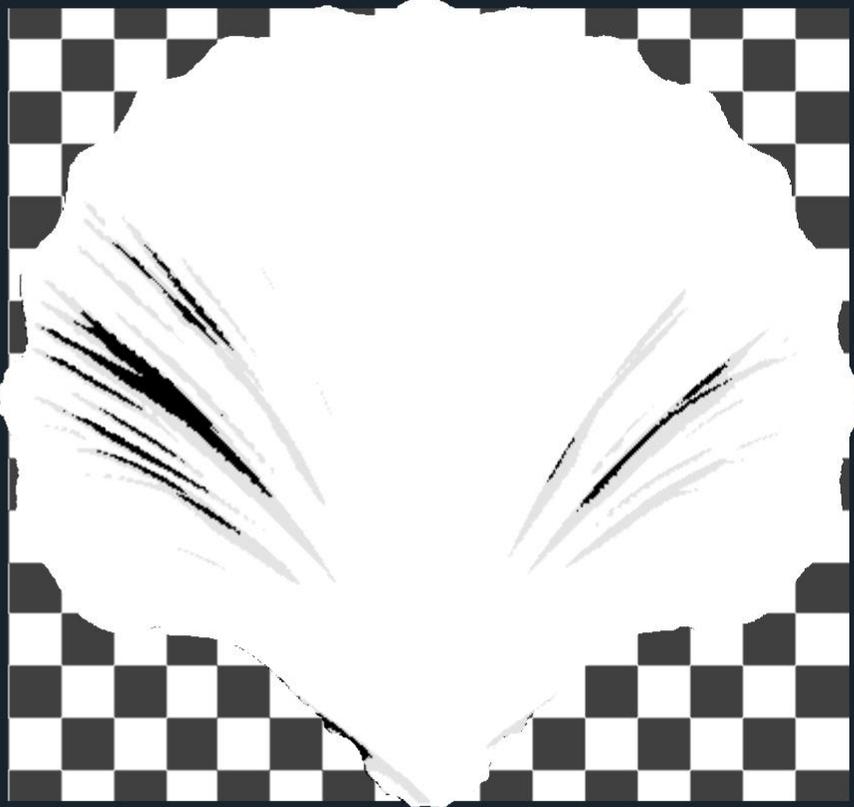
- Unowned

Brand	Name	TD
BambuLab Basic	Orange	7.0
BambuLab Basic	Jade White	5.0
BambuLab Basic	Black	0.6
BambuLab Basic	BambuLab Green	4.0
BambuLab Basic	Red	5.0
BambuLab Basic	Blue	4.0
BambuLab Basic	Yellow	6.0
BambuLab Basic	Gray	2.0
BambuLab Basic	Beige	8.0
BambuLab Basic	Silver	0.5
BambuLab Basic	Brown	2.0
BambuLab Basic	Pink	8.0
BambuLab Basic	Green	2.0
BambuLab Basic	Blue Gray	3.0
BambuLab Matte	Lemon Yellow	4.0
BambuLab Matte	Dark Red	1.5
BambuLab Matte	Grass Green	2.0
BambuLab Matte	Dark Brown	2.0

Filter

New Filament | Save | Brand

Project | vdd/Updat. | Load Set With Defaults



Only the "calibration" black layers really show
No shell features are visible.

Color Sliders

Transmission Distance mm: 0.6, 1.0, 3.0, 6.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0

Layer # | Depth mm

6	18	0	0	0	0	0	0	0	0	0	0	0
0.56	1.5	0	0	0	0	0	0	0	0	0	0	0

Model Geometry

Min Depth: 0.48 | sRGB | Brightness Comp: Standard

Max Depth: 1.50 | Unbias Lighting

Actual Depth: 1.5

Dynamic Depth

Image Format: Color | Legacy | Luminance: Combo

Spike Remove: Moderate | Adjust Amount: Medium | Smoothing: 4 | Brightness Adjust: 0

TD is 2

PLA PLA+ PETG ABS ASA CPE

- Owned

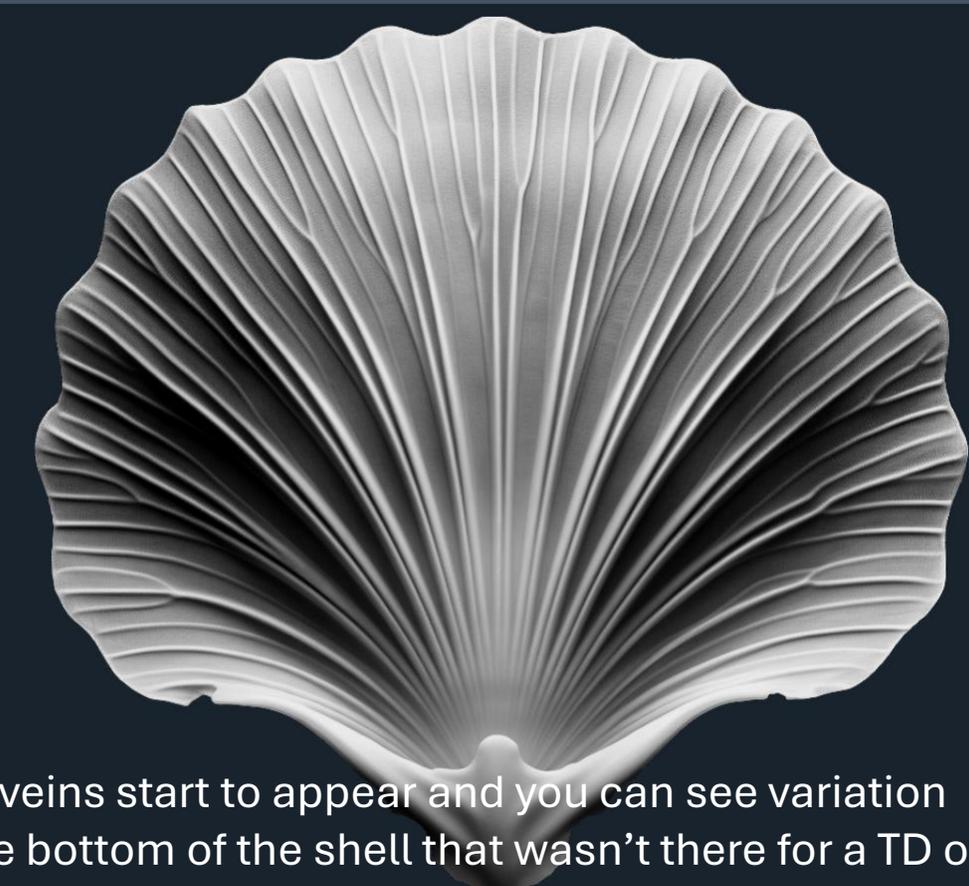
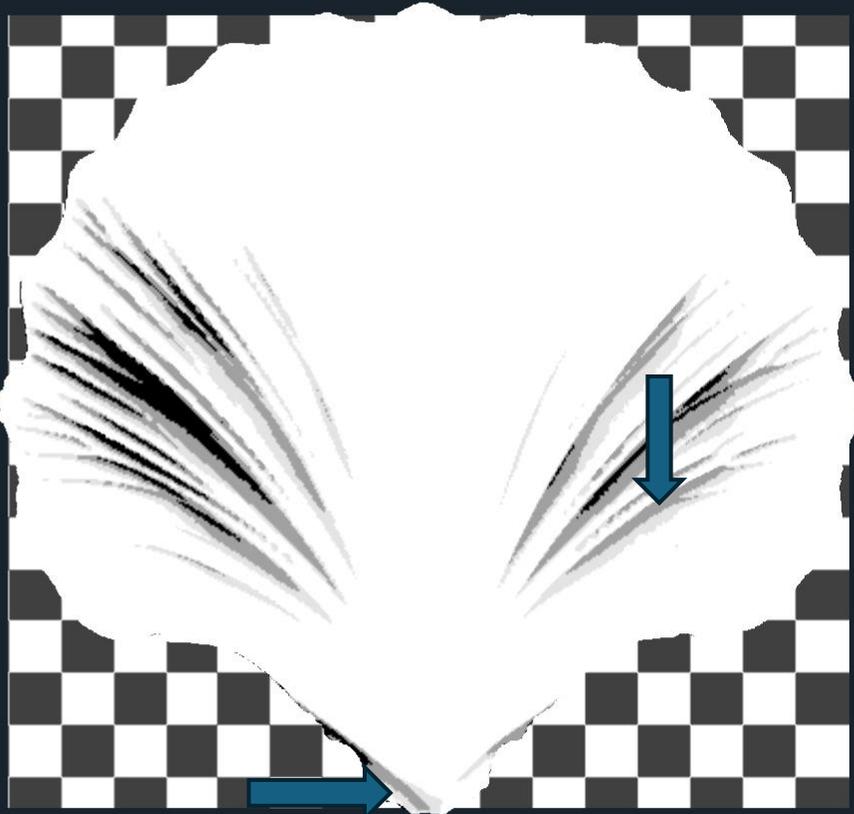
- Unowned

Brand	Name	TD
<input type="checkbox"/>	BambuLab Basic Orange	7.0
<input type="checkbox"/>	BambuLab Basic Jade White	5.0
<input type="checkbox"/>	BambuLab Basic Black	0.6
<input type="checkbox"/>	BambuLab Basic BambuLab Green	4.0
<input type="checkbox"/>	BambuLab Basic Red	5.0
<input type="checkbox"/>	BambuLab Basic Blue	4.0
<input type="checkbox"/>	BambuLab Basic Yellow	6.0
<input type="checkbox"/>	BambuLab Basic Gray	2.0
<input type="checkbox"/>	BambuLab Basic Beige	8.0
<input type="checkbox"/>	BambuLab Basic Silver	0.5
<input type="checkbox"/>	BambuLab Basic Brown	2.0
<input type="checkbox"/>	BambuLab Basic Pink	8.0
<input type="checkbox"/>	BambuLab Basic Green	2.0
<input type="checkbox"/>	BambuLab Basic Blue Gray	3.0
<input type="checkbox"/>	BambuLab Matte Lemon Yellow	4.0
<input type="checkbox"/>	BambuLab Matte Dark Red	1.5
<input type="checkbox"/>	BambuLab Matte Grass Green	2.0
<input type="checkbox"/>	BambuLab Matte Dark Brown	2.0

Filter

New Filament Save Brand

Project vdd/updat Load Set With Defaults



New veins start to appear and you can see variation
 At the bottom of the shell that wasn't there for a TD of 1
 The middle of the shell is still solid.

Color Sliders

Transmission Distance mm

Reorder Sliders

Invert Sliders

Layer #

Depth mm

Model Geometry

Min Depth 0.48 sRGB Brightness Comp Standard

Max Depth 1.50 Unbias Lighting

Actual Depth 1.5

Dynamic Depth

Image Format Color Legacy Luminance Combo

Spike Remove Moderate Adjust Amount Smoothing

Medium Brightness Adjust

HueForge - C:\Users\steph\Downloads\Seashell_Test v2.hfp

File Options Preferences Windows Filaments Help

Lighting Settings

LED Light Type: Natural White 4000K Front Lit

Light Intensity: 1.20 Back Lit

Blending Type: Filament Painting Slicer View

General Options and Operations

Remesh Step Height: 0.040 Width: 80.00 Full Range

Wireframe Layer Height: 0.08 Height: 75.54 Transparent

Reset View Base Layer: 0.16 Border Width: 4.00 No Border

Describe Detail Size: 0.20 Border Depth: 4.00 Negative

TD is 3

PLA PLA+ PETG ABS ASA CPE

- Owned

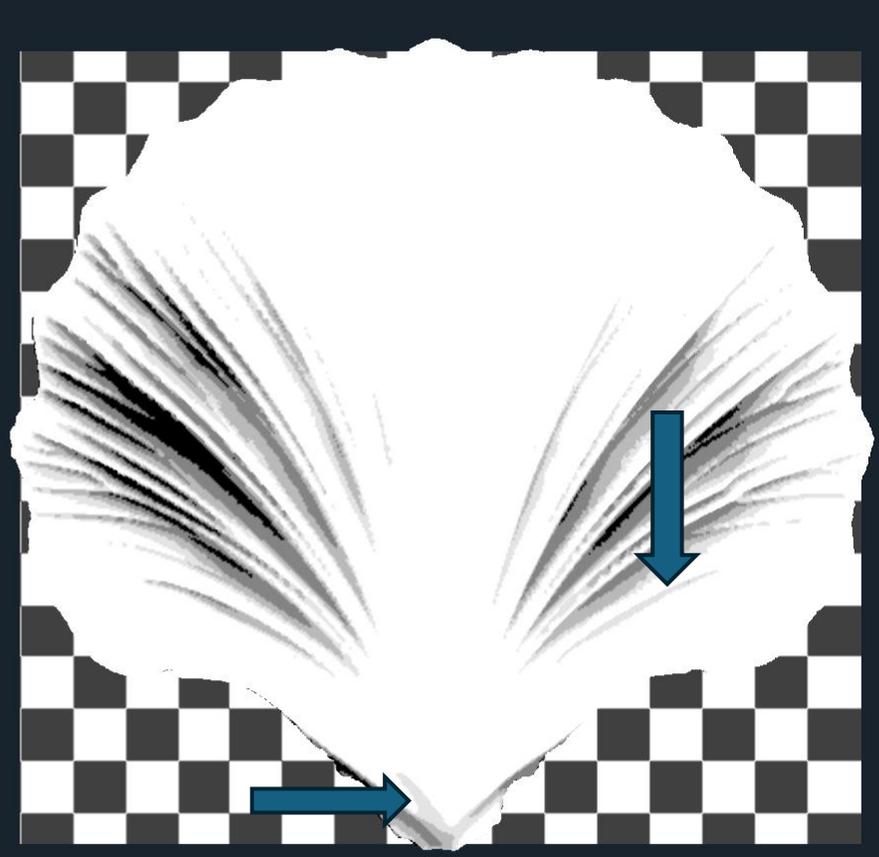
- Unowned

Brand	Name	TD
BambuLab Basic	Orange	7.0
BambuLab Basic	Jade White	5.0
BambuLab Basic	Black	0.6
BambuLab Basic	BambuLab Green	4.0
BambuLab Basic	Red	5.0
BambuLab Basic	Blue	4.0
BambuLab Basic	Yellow	6.0
BambuLab Basic	Gray	2.0
BambuLab Basic	Beige	8.0
BambuLab Basic	Silver	0.5
BambuLab Basic	Brown	2.0
BambuLab Basic	Pink	8.0
BambuLab Basic	Green	2.0
BambuLab Basic	Blue Gray	3.0
BambuLab Matte	Lemon Yellow	4.0
BambuLab Matte	Dark Red	1.5
BambuLab Matte	Grass Green	2.0
BambuLab Matte	Dark Brown	2.0

Filter

New Filament Save Brand

Project vdd/Updat. Load Set With Defaults



The bottom is starting to show more details but faintly. The lower veins start to show and the major veins get darker/wider.

Color Sliders

Transmission Distance mm: 0.6, 3.0, 6.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0

Reorder Sliders

Invert Sliders

Layer #

Depth mm: 0.56, 1.5, 0, 0, 0, 0, 0, 0, 0, 0, 0

Model Geometry

Min Depth: 0.48 sRGB Brightness Comp: Standard

Max Depth: 1.50 Unbias Lighting

Actual Depth: 1.5

Dynamic Depth

Image Format: Color Legacy Luminance: Combo

Spike Remove: Moderate Adjust Amount: Medium Smoothing: 4

Brightness Adjust: 0

HueForge - C:\Users\steph\Downloads\Seashell_Test v2.hfp

File Options Preferences Windows Filaments Help

Lighting Settings

LED Light Type: Natural White 4000K Front Lit

Light Intensity: 1.20 Back Lit

Blending Type: Filament Painting Slicer View

General Options and Operations

Remesh Step Height: 0.040 Width: 80.00 Full Range

Wireframe Layer Height: 0.08 Height: 75.54 Transparent

Reset View Base Layer: 0.16 Border Width: 4.00 No Border

Describe Detail Size: 0.20 Border Depth: 4.00 Negative

TD is 4

PLA PLA+ PETG ABS ASA CPE

- Owned

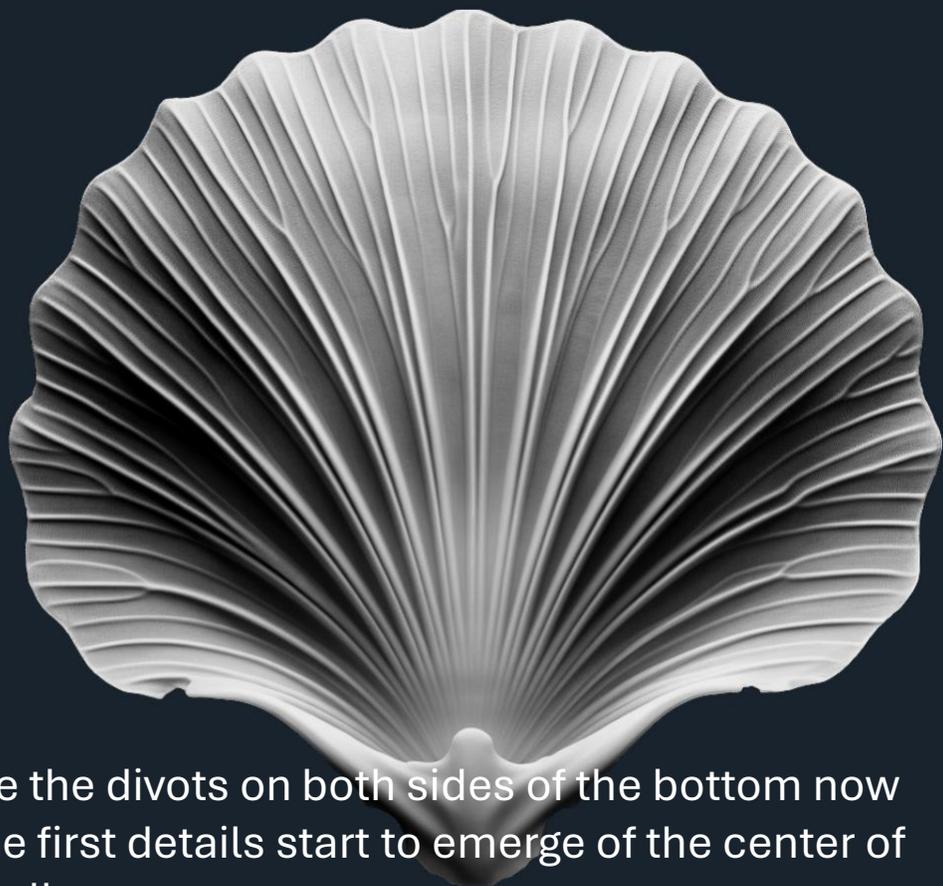
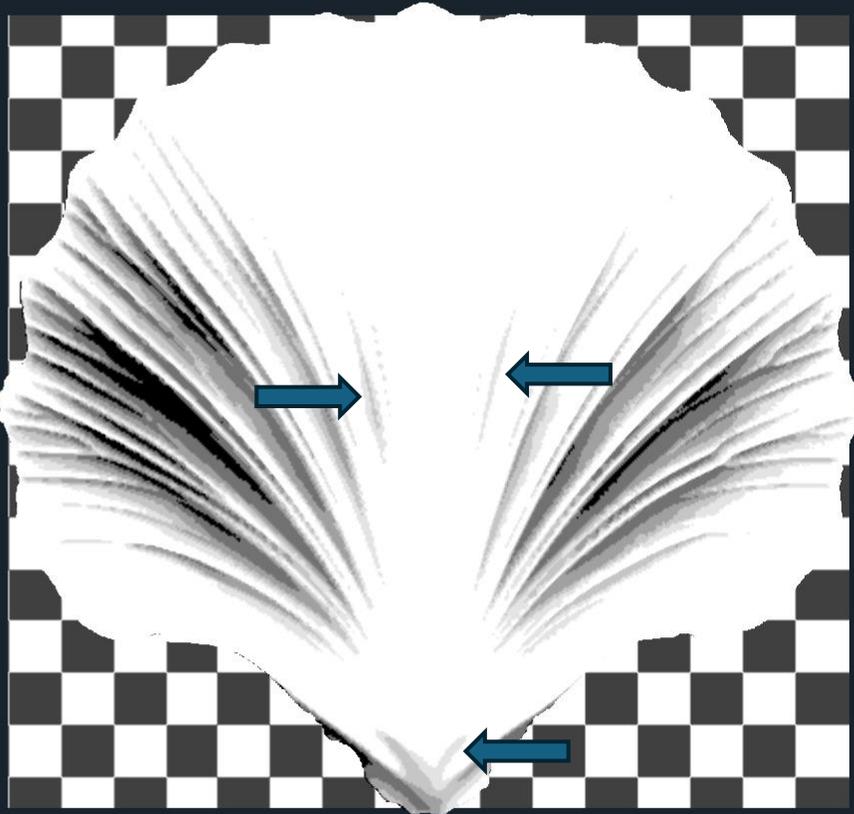
- Unowned

Brand	Name	TD
<input type="checkbox"/>	BambuLab Basic Orange	7.0
<input type="checkbox"/>	BambuLab Basic Jade White	5.0
<input type="checkbox"/>	BambuLab Basic Black	0.6
<input type="checkbox"/>	BambuLab Basic BambuLab Green	4.0
<input type="checkbox"/>	BambuLab Basic Red	5.0
<input type="checkbox"/>	BambuLab Basic Blue	4.0
<input type="checkbox"/>	BambuLab Basic Yellow	6.0
<input type="checkbox"/>	BambuLab Basic Gray	2.0
<input type="checkbox"/>	BambuLab Basic Beige	8.0
<input type="checkbox"/>	BambuLab Basic Silver	0.5
<input type="checkbox"/>	BambuLab Basic Brown	2.0
<input type="checkbox"/>	BambuLab Basic Pink	8.0
<input type="checkbox"/>	BambuLab Basic Green	2.0
<input type="checkbox"/>	BambuLab Basic Blue Gray	3.0
<input type="checkbox"/>	BambuLab Matte Lemon Yellow	4.0
<input type="checkbox"/>	BambuLab Matte Dark Red	1.5
<input type="checkbox"/>	BambuLab Matte Grass Green	2.0
<input type="checkbox"/>	BambuLab Matte Dark Brown	2.0

Filter

New Filament Save Brand

Project vdd/Updat Load Set With Defaults



We see the divots on both sides of the bottom now
And the first details start to emerge of the center of
The shell.

Color Sliders

Transmission Distance mm: 0.6, 4.0, 3.0, 6.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0

Reorder Sliders

Invert Sliders

Layer #

Depth mm: 0.56, 1.5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Model Geometry

Min Depth: 0.48 sRGB Brightness Comp: Standard

Max Depth: 1.50 Unbias Lighting

Actual Depth: 1.5

Dynamic Depth

Image Format: Color Legacy Luminance: Combo

Spike Remove: Moderate Adjust Amount: Medium Brightness Adjust

Power: 2.0

HueForge - C:\Users\steph\Downloads\Seashell_Test v2.hfp

File Options Preferences Windows Filaments Help

Lighting Settings

LED Light Type: Natural White 4000K Front Lit

Light Intensity: 1.20 Back Lit

Blending Type: Filament Painting Slicer View

General Options and Operations

Remesh Step Height: 0.040 Width: 80.00 Full Range

Wireframe Layer Height: 0.08 Height: 75.54 Transparent

Reset View Base Layer: 0.16 Border Width: 4.00 No Border

Describe Detail Size: 0.20 Border Depth: 4.00 Negative

TD is 5

PLA PLA+ PETG ABS ASA CPE

- Owned

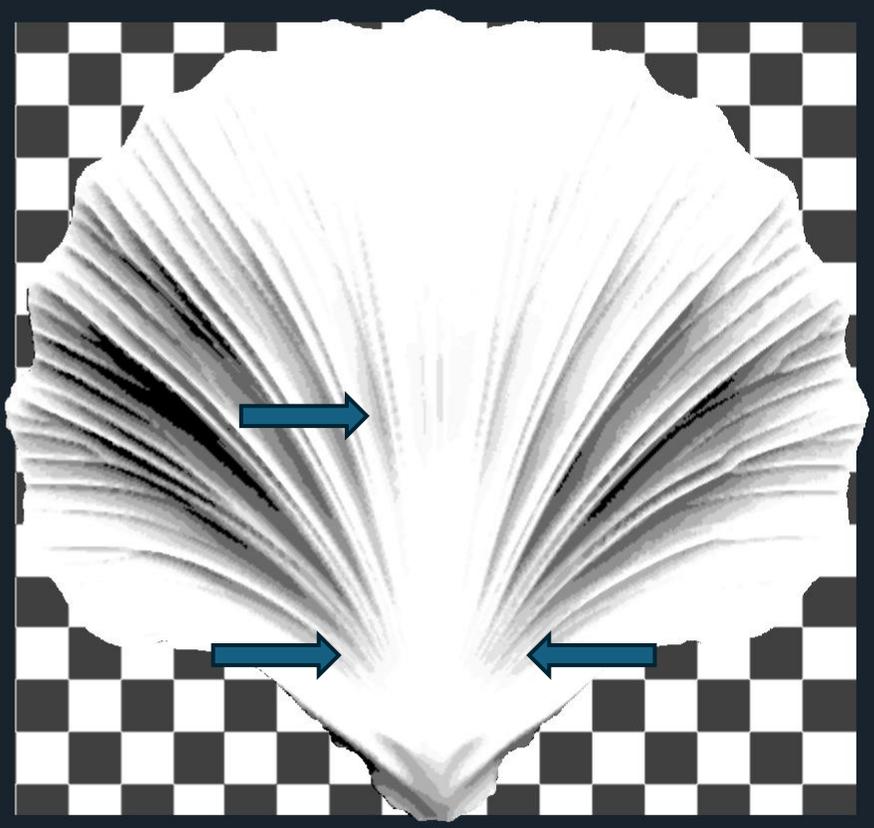
- Unowned

Brand	Name	TD
<input type="checkbox"/>	BambuLab Basic Orange	7.0
<input type="checkbox"/>	BambuLab Basic Jade White	5.0
<input type="checkbox"/>	BambuLab Basic Black	0.6
<input type="checkbox"/>	BambuLab Basic BambuLab Green	4.0
<input type="checkbox"/>	BambuLab Basic Red	5.0
<input type="checkbox"/>	BambuLab Basic Blue	4.0
<input type="checkbox"/>	BambuLab Basic Yellow	6.0
<input type="checkbox"/>	BambuLab Basic Gray	2.0
<input type="checkbox"/>	BambuLab Basic Beige	8.0
<input type="checkbox"/>	BambuLab Basic Silver	0.5
<input type="checkbox"/>	BambuLab Basic Brown	2.0
<input type="checkbox"/>	BambuLab Basic Pink	8.0
<input type="checkbox"/>	BambuLab Basic Green	2.0
<input type="checkbox"/>	BambuLab Basic Blue Gray	3.0
<input type="checkbox"/>	BambuLab Matte Lemon Yellow	4.0
<input type="checkbox"/>	BambuLab Matte Dark Red	1.5
<input type="checkbox"/>	BambuLab Matte Grass Green	2.0
<input type="checkbox"/>	BambuLab Matte Dark Brown	2.0

Filter

New Filament Save Brand

Project vdd/Updat Load Set With Defaults



The veins move in significantly toward the bottom middle of the shell and the middle part starts to show multiple shades but the top middle is still solid color.

Color Sliders

Transmission Distance mm: 0.6, 5.0, 3.0, 6.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0

Reorder Sliders

Invert Sliders

Layer #

Depth mm: 0.56, 1.5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Model Geometry

Min Depth: 0.4

Max Depth: 1.50

Actual Depth: 1.5

Dynamic Depth

Image Format: Color Legacy Luminance: Combo

Spike Remove: Moderate Adjust Amount Smoothing: 4

Brightness Comp: Standard

Unbias Lighting

Power: 2.0

Brightness Adjust: 1

HueForge - C:\Users\steph\Downloads\Seashell_Test v2.hfp

File Options Preferences Windows Filaments Help

Lighting Settings

LED Light Type: Natural White 4000K Front Lit

Light Intensity: 1.20 Back Lit

Blending Type: Filament Painting Slicer View

General Options and Operations

Remesh Step Height: 0.040 Width: 80.00 Full Range

Wireframe Layer Height: 0.08 Height: 75.54 Transparent

Reset View Base Layer: 0.16 Border Width: 4.00 No Border

Describe Detail Size: 0.20 Border Depth: 4.00 Negative

TD is 6

PLA PLA+ PETG ABS ASA CPE

- Owned

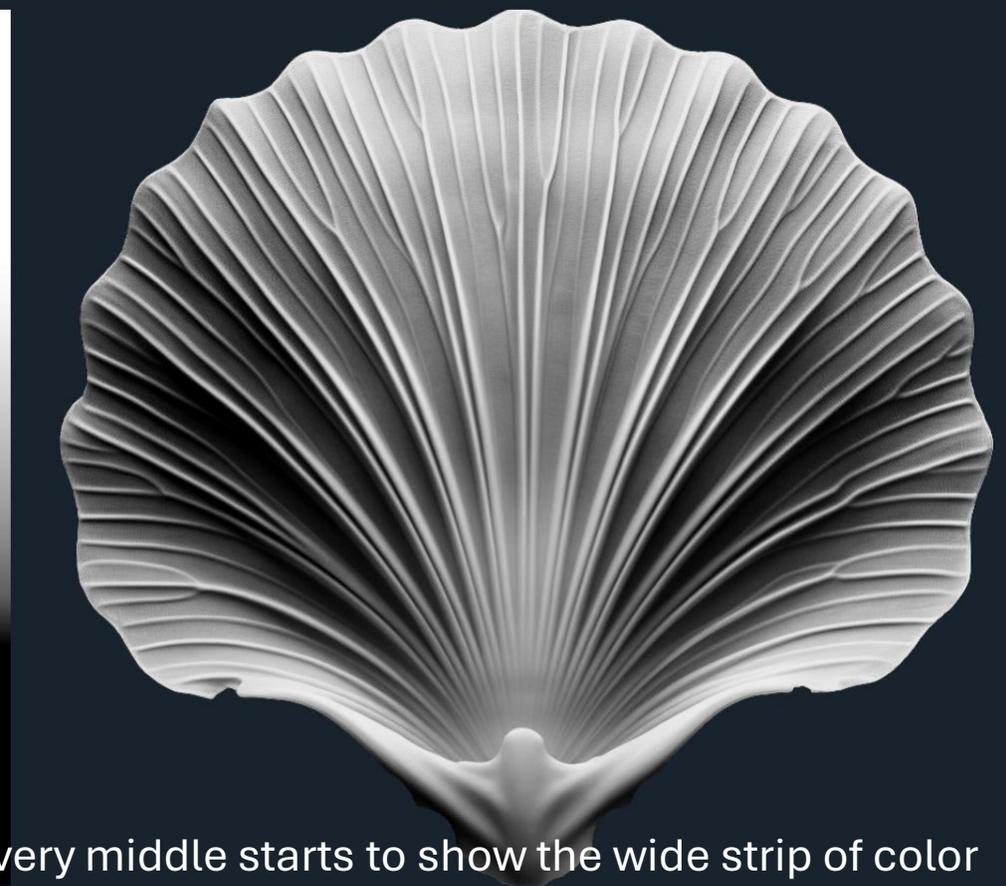
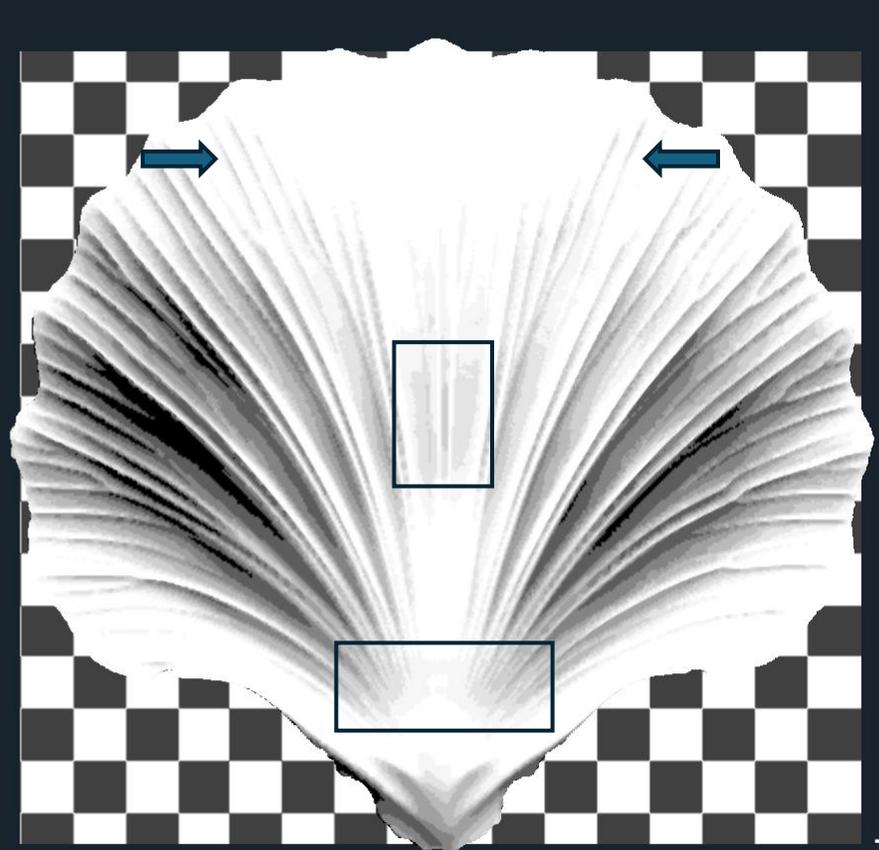
- Unowned

Brand	Name	TD
BambuLab Basic	Orange	7.0
BambuLab Basic	Jade White	5.0
BambuLab Basic	Black	0.6
BambuLab Basic	BambuLab Green	4.0
BambuLab Basic	Red	5.0
BambuLab Basic	Blue	4.0
BambuLab Basic	Yellow	6.0
BambuLab Basic	Gray	2.0
BambuLab Basic	Beige	8.0
BambuLab Basic	Silver	0.5
BambuLab Basic	Brown	2.0
BambuLab Basic	Pink	8.0
BambuLab Basic	Green	2.0
BambuLab Basic	Blue Gray	3.0
BambuLab Matte	Lemon Yellow	4.0
BambuLab Matte	Dark Red	1.5
BambuLab Matte	Grass Green	2.0
BambuLab Matte	Dark Brown	2.0

Filter

New Filament Save Brand

Project vdd/Updat Load Set With Defaults



The very middle starts to show the wide strip of color variation. The veins coming into the bottom get most of the way there. The veins on the top extend to the edges. This is a major checkpoint. If you cannot see this discoloration in the middle your TD is less than 6.

Color Sliders

Transmission Distance mm

Reorder Sliders

Invert Sliders

Layer #

Depth mm

0.6 6.0 3.0 6.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0

6 18 0 0 0 0 0 0 0 0 0 0

0.56 1.5 0 0 0 0 0 0 0 0 0 0

Model Geometry

Min Depth: 0.48 sRGB Brightness Comp: Standard

Max Depth: 1.5

Actual Depth: 1.5

Dynamic Depth: 1

Image Format: Legacy Luminance Combo

Spike Remove: Medium Brightness Adjust: 0

HueForge - C:\Users\steph\Downloads\Seashell_Test v2.hfp

File Options Preferences Windows Filaments Help

Lighting Settings

LED Light Type: Natural White 4000K Front Lit

Light Intensity: 1.20 Back Lit

Blending Type: Filament Painting Slicer View

General Options and Operations

Remesh Step Height: 0.040 Width: 80.00 Full Range

Wireframe Layer Height: 0.08 Height: 75.54 Transparent

Reset View Base Layer: 0.16 Border Width: 4.00 No Border

Describe Detail Size: 0.20 Border Depth: 4.00 Negative

TD is 7

PLA PLA+ PETG ABS ASA CPE

- Owned

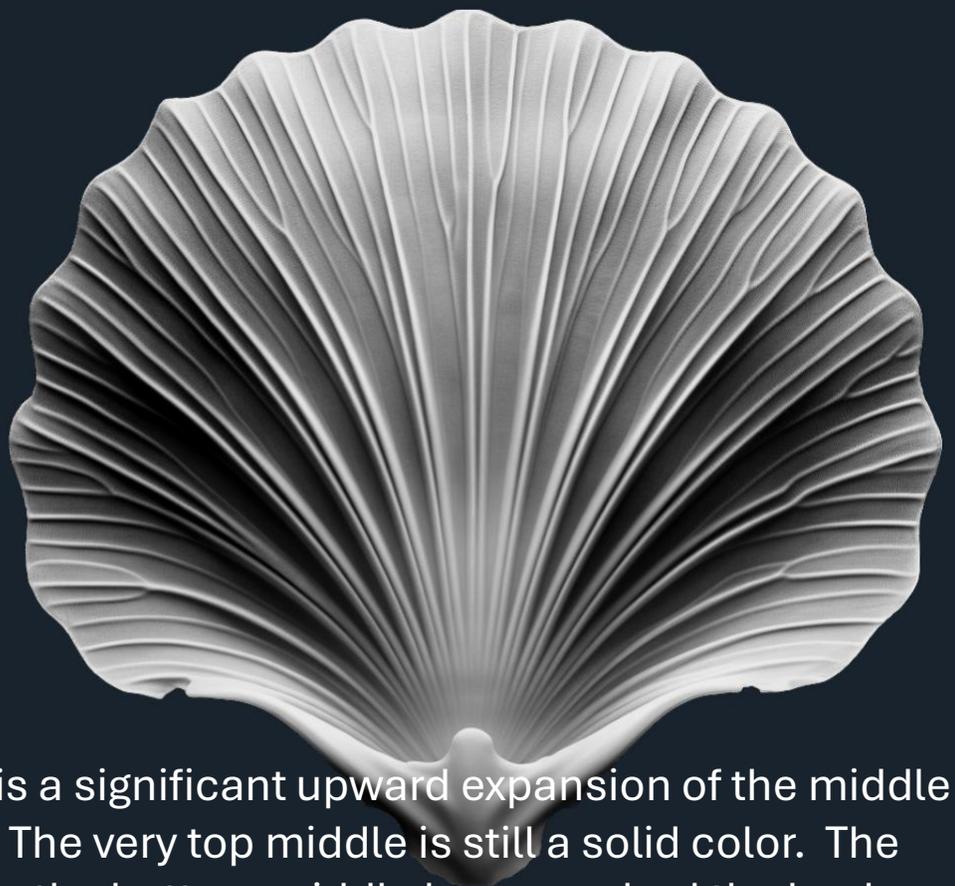
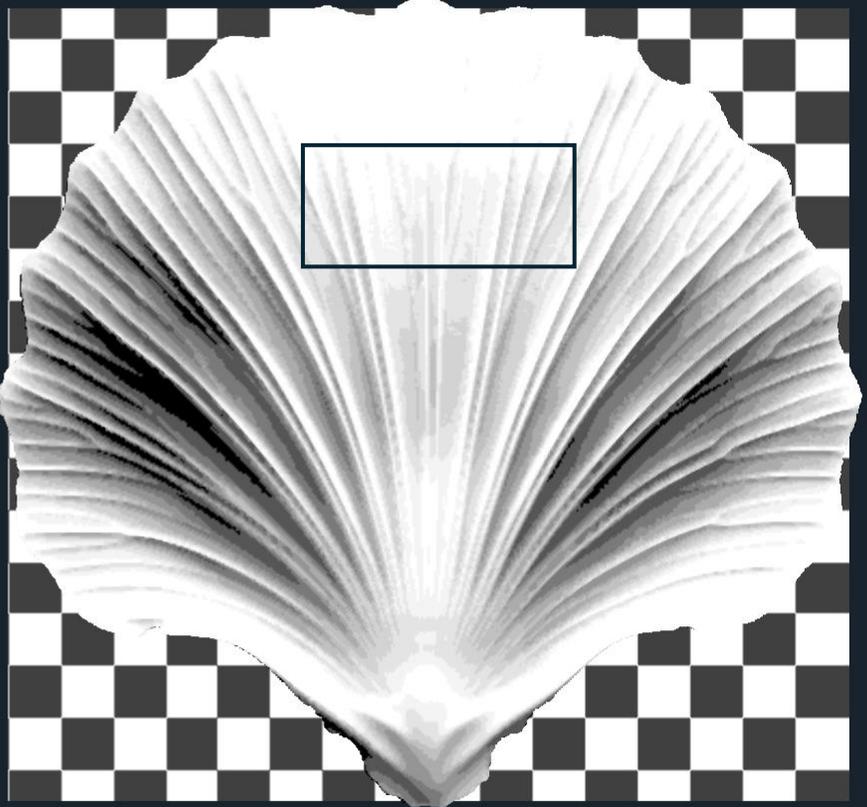
- Unowned

Brand	Name	TD
<input type="checkbox"/>	BambuLab Basic Orange	7.0
<input type="checkbox"/>	BambuLab Basic Jade White	5.0
<input type="checkbox"/>	BambuLab Basic Black	0.6
<input type="checkbox"/>	BambuLab Basic BambuLab Green	4.0
<input type="checkbox"/>	BambuLab Basic Red	5.0
<input type="checkbox"/>	BambuLab Basic Blue	4.0
<input type="checkbox"/>	BambuLab Basic Yellow	6.0
<input type="checkbox"/>	BambuLab Basic Gray	2.0
<input type="checkbox"/>	BambuLab Basic Beige	8.0
<input type="checkbox"/>	BambuLab Basic Silver	0.5
<input type="checkbox"/>	BambuLab Basic Brown	2.0
<input type="checkbox"/>	BambuLab Basic Pink	8.0
<input type="checkbox"/>	BambuLab Basic Green	2.0
<input type="checkbox"/>	BambuLab Basic Blue Gray	3.0
<input type="checkbox"/>	BambuLab Matte Lemon Yellow	4.0
<input type="checkbox"/>	BambuLab Matte Dark Red	1.5
<input type="checkbox"/>	BambuLab Matte Grass Green	2.0
<input type="checkbox"/>	BambuLab Matte Dark Brown	2.0

Filter

New Filament Save Brand

Project vdd/Updat. Load Set With Defaults



There is a significant upward expansion of the middle veins. The very top middle is still a solid color. The veins in the bottom middle have reached the knob.

The knob JUST starts to be discernable.

Color Sliders

Transmission Distance mm

Reorder Sliders

Invert Sliders

Layer #

Depth mm

0.6 7.0 3.0 6.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0

6 18 0 0 0 0 0 0 0 0 0 0

0.56 1.5 0 0 0 0 0 0 0 0 0 0

Model Geometry

Min Depth: 1.40

Max Depth: 1.50

Actual Depth: 1.5

Dynamic Depth

Image Format: Color Legacy Luminance: Combo

Spike Remove: Moderate Adjust Amount Smoothing: 4

Medium Brightness Adjust

HueForge - C:\Users\steph\Downloads\Seashell_Test v2.hfp

File Options Preferences Windows Filaments Help

Lighting Settings

LED Light Type: Natural White 4000K Front Lit

Light Intensity: 1.20 Back Lit

Blending Type: Filament Painting Slicer View

General Options and Operations

Remesh Step Height: 0.040 Width: 80.00 Full Range

Wireframe Layer Height: 0.08 Height: 75.54 Transparent

Reset View Base Layer: 0.16 Border Width: 4.00 No Border

Describe Detail Size: 0.20 Border Depth: 4.00 Negative

TD is 8

PLA PLA+ PETG ABS ASA CPE

- Owned

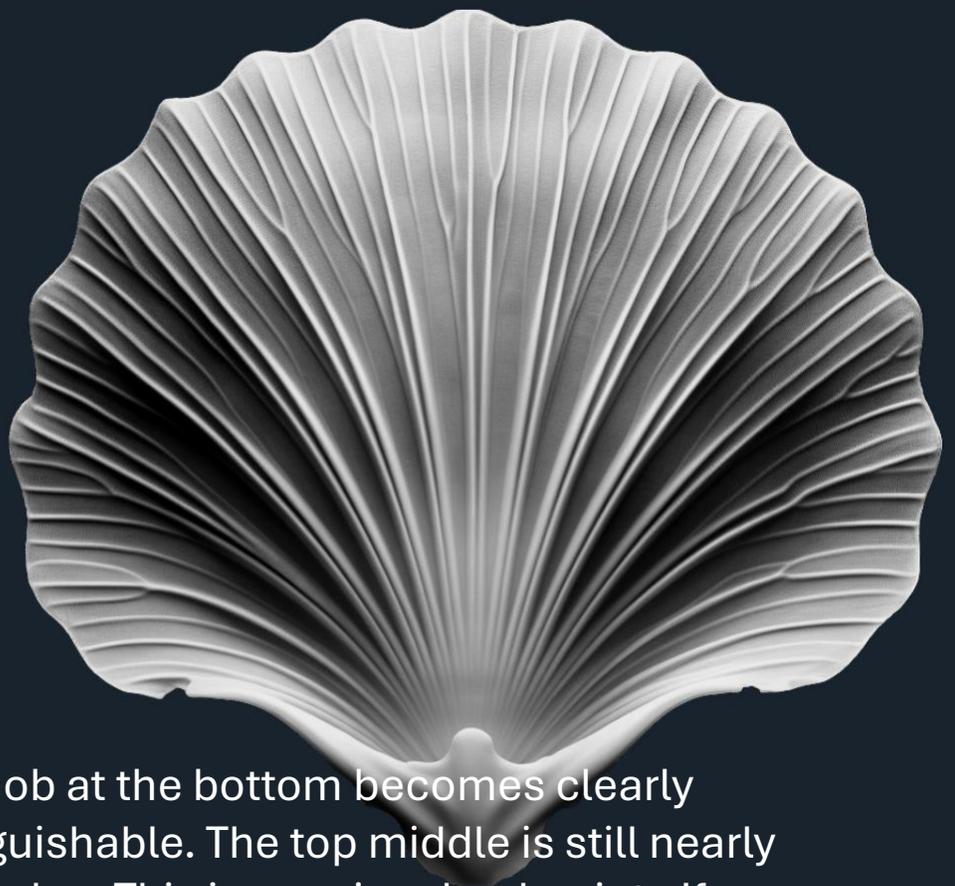
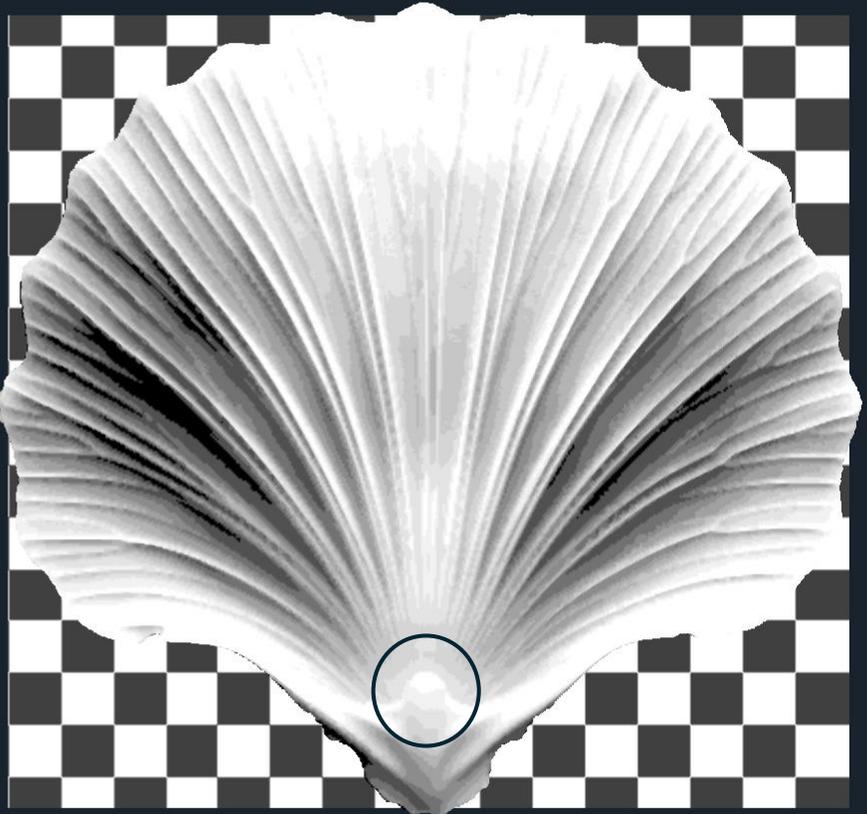
- Unowned

Brand	Name	TD
<input type="checkbox"/>	BambuLab Basic Orange	7.0
<input type="checkbox"/>	BambuLab Basic Jade White	5.0
<input type="checkbox"/>	BambuLab Basic Black	0.6
<input type="checkbox"/>	BambuLab Basic BambuLab Green	4.0
<input type="checkbox"/>	BambuLab Basic Red	5.0
<input type="checkbox"/>	BambuLab Basic Blue	4.0
<input type="checkbox"/>	BambuLab Basic Yellow	6.0
<input type="checkbox"/>	BambuLab Basic Gray	2.0
<input type="checkbox"/>	BambuLab Basic Beige	8.0
<input type="checkbox"/>	BambuLab Basic Silver	0.5
<input type="checkbox"/>	BambuLab Basic Brown	2.0
<input type="checkbox"/>	BambuLab Basic Pink	8.0
<input type="checkbox"/>	BambuLab Basic Green	2.0
<input type="checkbox"/>	BambuLab Basic Blue Gray	3.0
<input type="checkbox"/>	BambuLab Matte Lemon Yellow	4.0
<input type="checkbox"/>	BambuLab Matte Dark Red	1.5
<input type="checkbox"/>	BambuLab Matte Grass Green	2.0
<input type="checkbox"/>	BambuLab Matte Dark Brown	2.0

Filter

New Filament Save Brand

Project vdd/Updat Load Set With Defaults



The knob at the bottom becomes clearly distinguishable. The top middle is still nearly solid color. This is a major checkpoint. If you cannot distinguish the knob, the TD is < 8.

Color Sliders

Transmission Distance mm

Reorder Sliders

Invert Sliders

Layer #

Depth mm

0.6 8.0 3.0 6.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0

6 18 0 0 0 0 0 0 0 0 0 0

0.56 1.5 0 0 0 0 0 0 0 0 0 0

Model Geometry

Min Depth: 0.4

Max Depth: 1.50

Actual Depth: 1.5

Dynamic Depth

Image Format: Color Legacy Luminance Combo

Spike Remove: Moderate Adjust Amount Smoothing

Medium Brightness Adjust

LED Light Type: Natural White 4000K | Front Lit

Light Intensity: 1.20 | Back Lit

Blending Type: Filament Painting | Slicer View

General Options and Operations

Remesh Step Height: 0.040 | Width: 80.00 | Full Range

Wireframe Layer Height: 0.08 | Height: 75.54 | Transparent

Reset View Base Layer: 0.16 | Border Width: 4.00 | No Border

Describe Detail Size: 0.20 | Border Depth: 4.00 | Negative

TD is 9

PLA PLA+ PETG ABS ASA CPE

- Owned

- Unowned

Brand	Name	TD
<input type="checkbox"/>	BambuLab Basic Orange	7.0
<input type="checkbox"/>	BambuLab Basic Jade White	5.0
<input type="checkbox"/>	BambuLab Basic Black	0.6
<input type="checkbox"/>	BambuLab Basic BambuLab Green	4.0
<input type="checkbox"/>	BambuLab Basic Red	5.0
<input type="checkbox"/>	BambuLab Basic Blue	4.0
<input type="checkbox"/>	BambuLab Basic Yellow	6.0
<input type="checkbox"/>	BambuLab Basic Gray	2.0
<input type="checkbox"/>	BambuLab Basic Beige	8.0
<input type="checkbox"/>	BambuLab Basic Silver	0.5
<input type="checkbox"/>	BambuLab Basic Brown	2.0
<input type="checkbox"/>	BambuLab Basic Pink	8.0
<input type="checkbox"/>	BambuLab Basic Green	2.0
<input type="checkbox"/>	BambuLab Basic Blue Gray	3.0
<input type="checkbox"/>	BambuLab Matte Lemon Yellow	4.0
<input type="checkbox"/>	BambuLab Matte Dark Red	1.5
<input type="checkbox"/>	BambuLab Matte Grass Green	2.0
<input type="checkbox"/>	BambuLab Matte Dark Brown	2.0

Filter [X]

New Filament Save Brand

Project vdd/Updat Load Set With Defaults



The first discoloration of the top middle

Color Sliders

Transmission Distance mm: 0.6, 9.0, 3.0, 6.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0

Layer #: 6, 18, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Depth mm: 0.56, 1.5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Model Geometry

Min Depth: 0.48 | sRGB | Brightness Comp: Standard

Max Depth: 1.50 | Unbias Lighting

Actual Depth: 1.5

Dynamic Depth

Image Format: Color | Legacy | Luminance: Combo

Spike Remove: Moderate | Adjust Amount: Medium | Smoothing: 4 | Brightness Adjust: 0

HueForge - C:\Users\steph\Downloads\Seashell_Test v2.hfp

File Options Preferences Windows Filaments Help

Lighting Settings

LED Light Type: Natural White 4000K Front Lit

Light Intensity: 1.20 Back Lit

Blending Type: Filament Painting Slicer View

General Options and Operations

Remesh Step Height: 0.040 Width: 80.00 Full Range

Wireframe Layer Height: 0.08 Height: 75.54 Transparent

Reset View Base Layer: 0.16 Border Width: 4.00 No Border

Describe Detail Size: 0.20 Border Depth: 4.00 Negative

TD is 10

PLA PLA+ PETG ABS ASA CPE

- Owned

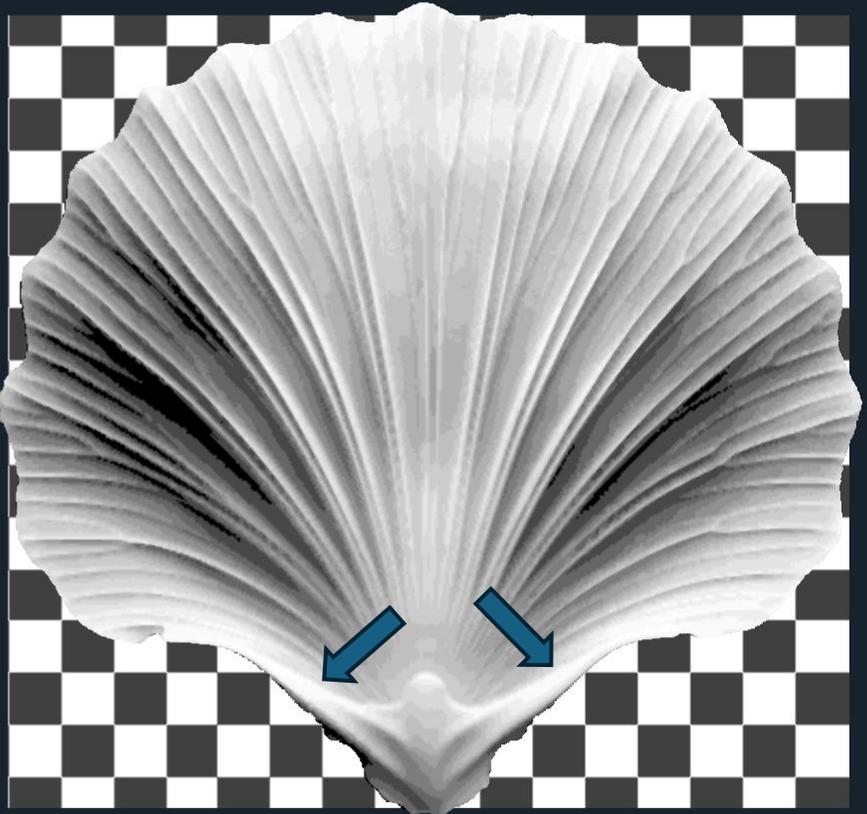
- Unowned

Brand	Name	TD
BambuLab Basic	Orange	7.0
BambuLab Basic	Jade White	5.0
BambuLab Basic	Black	0.6
BambuLab Basic	BambuLab Green	4.0
BambuLab Basic	Red	5.0
BambuLab Basic	Blue	4.0
BambuLab Basic	Yellow	6.0
BambuLab Basic	Gray	2.0
BambuLab Basic	Beige	8.0
BambuLab Basic	Silver	0.5
BambuLab Basic	Brown	2.0
BambuLab Basic	Pink	8.0
BambuLab Basic	Green	2.0
BambuLab Basic	Blue Gray	3.0
BambuLab Matte	Lemon Yellow	4.0
BambuLab Matte	Dark Red	1.5
BambuLab Matte	Grass Green	2.0
BambuLab Matte	Dark Brown	2.0

Filter

New Filament Save Brand

Project vdd/Updat. Load Set With Defaults



As we get above 8 things start to become less clear
 At 10 we can distinguish the arms at the bottom of the Shell more clearly.

Color Sliders

Transmission Distance mm

Reorder Sliders

Invert Sliders

Layer #

Depth mm

0.6 10 3.0 6.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0

6 18 0 0 0 0 0 0 0 0 0

0.56 1.5 0 0 0 0 0 0 0 0 0

Model Geometry

Min Depth: 0.48 sRGB Brightness Comp: Standard

Max Depth: 1.50 Unbias Lighting

Actual Depth: 1.5

Dynamic Depth

Image Format: Color Legacy Luminance: Combo

Spike Remove: Moderate Adjust Amount: Medium Smoothing: Brightness Adjust

HueForge - C:\Users\steph\Downloads\Seashell_Test v2.hfp

File Options Preferences Windows Filaments Help

Lighting Settings

LED Light Type: Natural White 4000K Front Lit

Light Intensity: 1.20 Back Lit

Blending Type: Filament Painting Slicer View

General Options and Operations

Remesh Step Height: 0.040 Width: 80.00 Full Range

Wireframe Layer Height: 0.08 Height: 75.54 Transparent

Reset View Base Layer: 0.16 Border Width: 4.00 No Border

Describe Detail Size: 0.20 Border Depth: 4.00 Negative

TD is 12

PLA PLA+ PETG ABS ASA CPE

- Owned

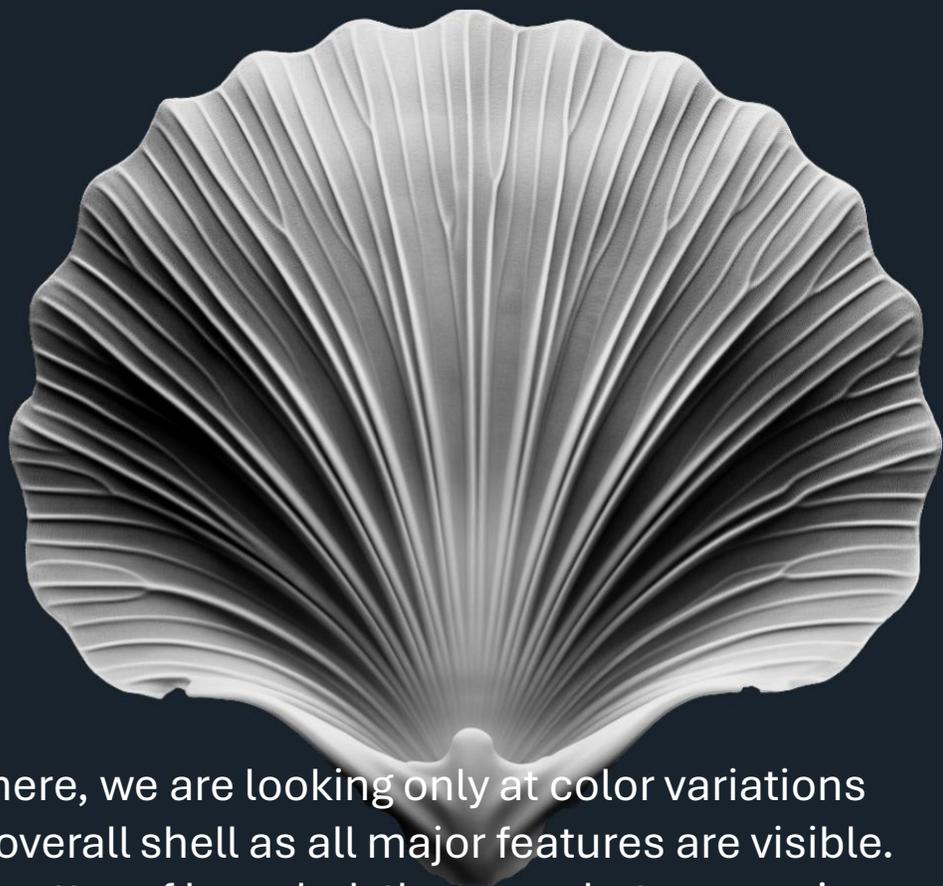
- Unowned

Brand	Name	TD
<input type="checkbox"/>	BambuLab Basic Orange	7.0
<input type="checkbox"/>	BambuLab Basic Jade White	5.0
<input type="checkbox"/>	BambuLab Basic Black	0.6
<input type="checkbox"/>	BambuLab Basic BambuLab Green	4.0
<input type="checkbox"/>	BambuLab Basic Red	5.0
<input type="checkbox"/>	BambuLab Basic Blue	4.0
<input type="checkbox"/>	BambuLab Basic Yellow	6.0
<input type="checkbox"/>	BambuLab Basic Gray	2.0
<input type="checkbox"/>	BambuLab Basic Beige	8.0
<input type="checkbox"/>	BambuLab Basic Silver	0.5
<input type="checkbox"/>	BambuLab Basic Brown	2.0
<input type="checkbox"/>	BambuLab Basic Pink	8.0
<input type="checkbox"/>	BambuLab Basic Green	2.0
<input type="checkbox"/>	BambuLab Basic Blue Gray	3.0
<input type="checkbox"/>	BambuLab Matte Lemon Yellow	4.0
<input type="checkbox"/>	BambuLab Matte Dark Red	1.5
<input type="checkbox"/>	BambuLab Matte Grass Green	2.0
<input type="checkbox"/>	BambuLab Matte Dark Brown	2.0

Filter

New Filament Save Brand

Project vdd/Updat. Load Set With Defaults



From here, we are looking only at color variations in the overall shell as all major features are visible. It is a matter of how dark the areas between veins get and how clear features are. It also starts to matter how bright the tops of the veins remain.

Color Sliders

Transmission Distance mm: 0.6, 12, 3.0, 6.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0

Layer #

Depth mm: 0.56, 1.5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Model Geometry

Min Depth: 1.5

Max Depth: 1.50

Actual Depth: 1.5

Dynamic Depth

Image Format: Color Legacy Luminance Combo

Spike Remove: Moderate Adjust Amount Smoothing

Medium Brightness Adjust

LED Light Type: Natural White 4000K Front Lit

Light Intensity: 1.20 Back Lit

Blending Type: Filament Painting Slicer View

General Options and Operations

Remesh Step Height: 0.040 Width: 80.00 Full Range

Wireframe Layer Height: 0.08 Height: 75.54 Transparent

Reset View Base Layer: 0.16 Border Width: 4.00 No Border

Describe Detail Size: 0.20 Border Depth: 4.00 Negative

TD is 14

PLA PLA+ PETG ABS ASA CPE

- Owned

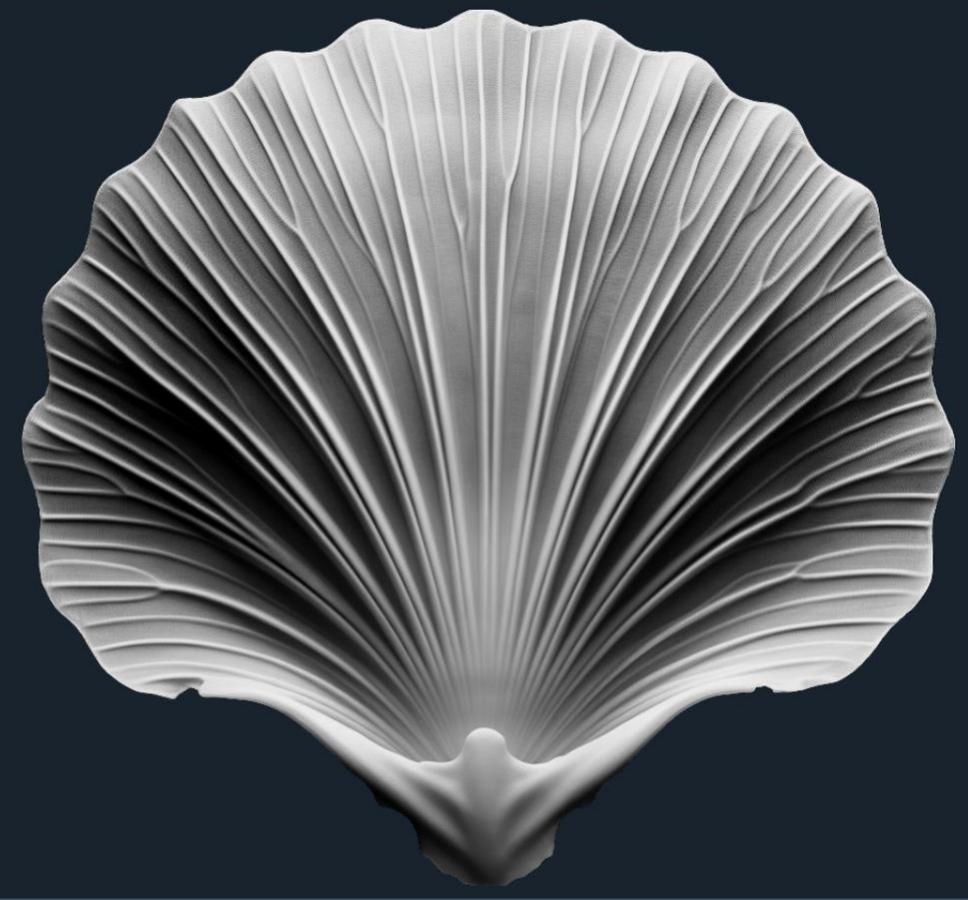
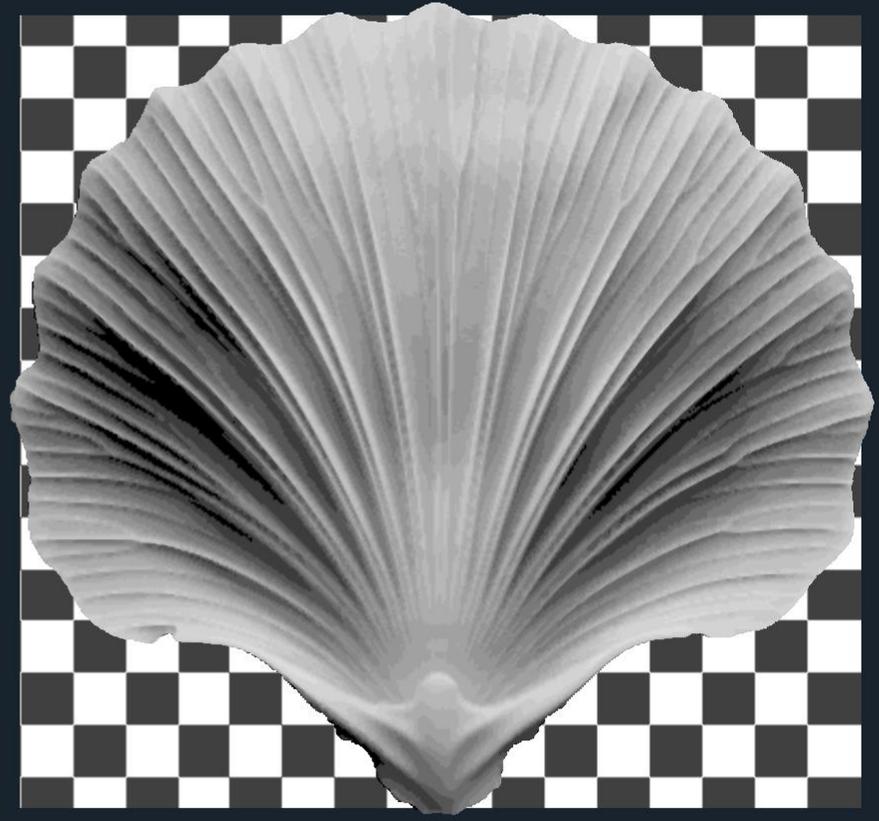
- Unowned

Brand	Name	TD
<input type="checkbox"/>	BambuLab Basic Orange	7.0
<input type="checkbox"/>	BambuLab Basic Jade White	5.0
<input type="checkbox"/>	BambuLab Basic Black	0.6
<input type="checkbox"/>	BambuLab Basic BambuLab Green	4.0
<input type="checkbox"/>	BambuLab Basic Red	5.0
<input type="checkbox"/>	BambuLab Basic Blue	4.0
<input type="checkbox"/>	BambuLab Basic Yellow	6.0
<input type="checkbox"/>	BambuLab Basic Gray	2.0
<input type="checkbox"/>	BambuLab Basic Beige	8.0
<input type="checkbox"/>	BambuLab Basic Silver	0.5
<input type="checkbox"/>	BambuLab Basic Brown	2.0
<input type="checkbox"/>	BambuLab Basic Pink	8.0
<input type="checkbox"/>	BambuLab Basic Green	2.0
<input type="checkbox"/>	BambuLab Basic Blue Gray	3.0
<input type="checkbox"/>	BambuLab Matte Lemon Yellow	4.0
<input type="checkbox"/>	BambuLab Matte Dark Red	1.5
<input type="checkbox"/>	BambuLab Matte Grass Green	2.0
<input type="checkbox"/>	BambuLab Matte Dark Brown	2.0

Filter

New Filament Save Brand

Project vdd/Updat Load Set With Defaults



Color Sliders

Transmission Distance mm: 0.6, 14, 3.0, 6.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0

Reorder Sliders

Invert Sliders

Layer #

Depth mm: 0.56, 1.5, 0, 0, 0, 0, 0, 0, 0, 0, 0

Model Geometry

Min Depth: 0.48 sRGB Brightness Comp: Standard

Max Depth: 1.50 Unbias Lighting Power: 2.0

Actual Depth: 1.5

Dynamic Depth

Image Format: Color Legacy Luminance: Combo

Spike Remove: Moderate Adjust Amount Smoothing: 4

Medium Brightness Adjust: 0

LED Light Type: Natural White 4000K | Front Lit

Light Intensity: 1.20 | Back Lit

Blending Type: Filament Painting | Slicer View

Remesh | Step Height: 0.040 | Width: 80.00 | Full Range

Wireframe | Layer Height: 0.08 | Height: 75.54 | Transparent

Reset View | Base Layer: 0.16 | Border Width: 4.00 | No Border

Describe | Detail Size: 0.20 | Border Depth: 4.00 | Negative

TD is 16

PLA PLA+ PETG ABS ASA CPE

- Owned

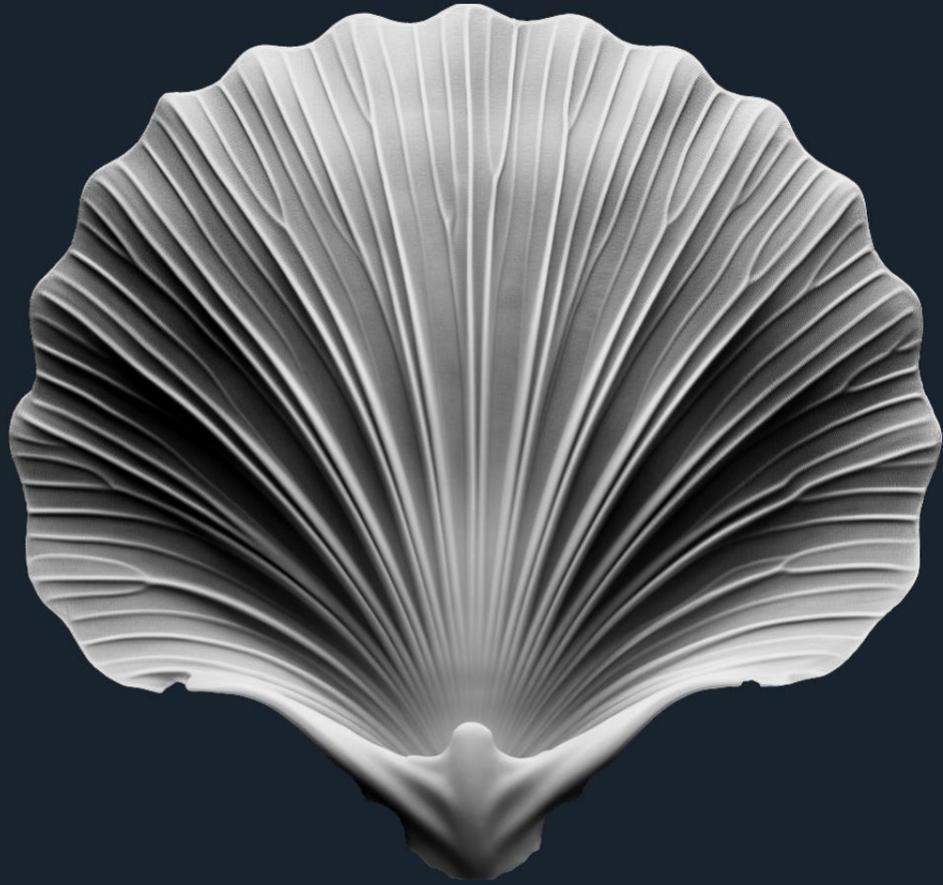
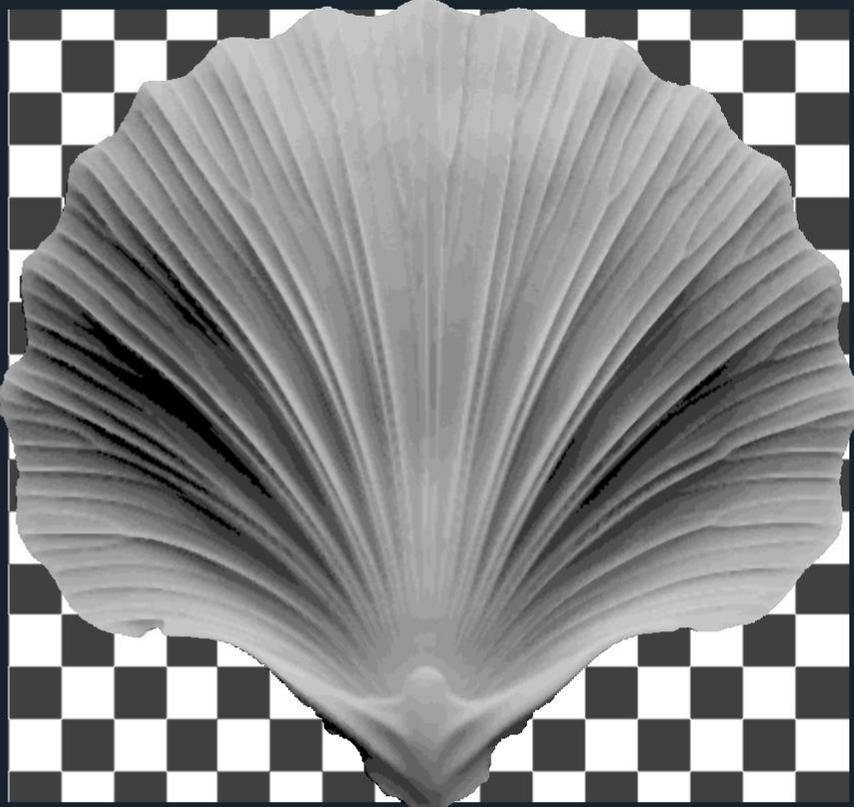
- Unowned

Brand	Name	TD
<input type="checkbox"/>	BambuLab Basic Orange	7.0
<input type="checkbox"/>	BambuLab Basic Jade White	5.0
<input type="checkbox"/>	BambuLab Basic Black	0.6
<input type="checkbox"/>	BambuLab Basic BambuLab Green	4.0
<input type="checkbox"/>	BambuLab Basic Red	5.0
<input type="checkbox"/>	BambuLab Basic Blue	4.0
<input type="checkbox"/>	BambuLab Basic Yellow	6.0
<input type="checkbox"/>	BambuLab Basic Gray	2.0
<input type="checkbox"/>	BambuLab Basic Beige	8.0
<input type="checkbox"/>	BambuLab Basic Silver	0.5
<input type="checkbox"/>	BambuLab Basic Brown	2.0
<input type="checkbox"/>	BambuLab Basic Pink	8.0
<input type="checkbox"/>	BambuLab Basic Green	2.0
<input type="checkbox"/>	BambuLab Basic Blue Gray	3.0
<input type="checkbox"/>	BambuLab Matte Lemon Yellow	4.0
<input type="checkbox"/>	BambuLab Matte Dark Red	1.5
<input type="checkbox"/>	BambuLab Matte Grass Green	2.0
<input type="checkbox"/>	BambuLab Matte Dark Brown	2.0

Filter

New Filament Save Brand

Project vdd/Updat Load Set With Defaults



Color Sliders

Transmission Distance mm: 0.6, 16, 3.0, 6.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0, 5.0

Reorder Sliders

Invert Sliders

Layer #

Depth mm: 0.56, 1.5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Model Geometry

Min Depth: 0.48 | sRGB | Brightness Comp: Standard

Max Depth: 1.50 | Unbias Lighting

Actual Depth: 1.5

Dynamic Depth

Image Format: Color | Legacy | Luminance: Combo

Spike Remove: Moderate | Adjust Amount: Medium | Smoothing: | Brightness Adjust: |