

How fine does 3D printing go?

Posted by jsantos - 2011/11/15 13:17

I know that 3D printing can produce fine scale products, but I was thinking about designing a very intricate Sea Urchin. Can a 3D printer make something this fine scale?

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Re:How fine does 3D printing go?

Posted by Bryce - 2011/11/15 13:18

I'm pretty sure that you could do that through 3D printing

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Re:How fine does 3D printing go?

Posted by Waldo - 2011/11/15 13:19

You could definitely print something that precise, 3D printing allows for very detailed figurines. If you created the print out of a fragile material, it may be subject to break, but that is the only issue.

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Re:How fine does 3D printing go?

Posted by Bryce - 2011/11/15 13:54

I wonder how well 3D printing would compete with all of the warhammer games, and table top model games.

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Re:How fine does 3D printing go?

Posted by Marco CM - 2012/02/23 11:54

Kraftwurx Objet Vero materials such as VeroWhite, VeroBlu, and Fullcure720 Amber Clear will hold the detail necessary for small table-top gaming miniatures. Kraftwurx plans to add more even high-detail capable materials soon. These new materials hold far greater detail than any miniatures produced by traditional methods could hold.

So yes, you can print figures at 40mm high and expect fantastic detail from the Verowhite, VeroGrey, VeroBlue.

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Re:How fine does 3D printing go?

Posted by Guillaume - 2012/05/20 12:10

I ve been looking for the VeroWhite, VeroBlu, and Fullcure720 Amber Clear in the list of materials but I ve not found it..

I m also actually preparing a figurine with very small details (human size: 28mm) and I hope you will have the best material for this job ^^

By now, I was looking the description of your different materials and it s difficult to know what have the best quality of detail :D

You says precious metals have exceptional details, the Nano serie have high details, and the Sub-surface Vero have beautiful details.

On your video (youtube) I ve seen ring in Nano and it was really impressive but I can t compare for choose the most detailed for a figurine ^^

Would you help me please?

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Re:How fine does 3D printing go?

Posted by Marco CM - 2012/05/21 09:56

Hello,

Currently our material's page list them by technical manufacture brand name. Not the shorter names. We will most likely change this to make more sense.

The Sub-surface materials are all Objet brand. They are capable of 28mm figurines with decent detail. But build lines will be slightly visible and might require some polishing to smooth out completely.

Nano-Detail materials are all EnvisionTEC brand. These materials are the highest detail 3D printing materials currently on market. They are designed for the jewelry, dental, surgical, and miniature industries. The Nano-detail family is a selection of materials each formulated for different properties. For figurines Nano-Detail High-Temp, Nano-Detail PhotoSilver , Nano-Detail Amber Resin, are all ideal for figurines.

High-temp can take the heat and pressure of rubber mold vulcanization. It is very rigid and shows extraordinary detail.

Let me know if I answered your question, or if you need any more information.

Happy 3D Printing!

-Marco

Community Manager

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Re:How fine does 3D printing go?

Posted by Guillaume - 2012/05/21 10:12

Thank you very much for answering so quickly ^^

In fact I ve many over questions because I m preparing my project since a long time and it include many over steps after 3d printing :D

But now the most important thing I need to know is about the 3d construction: When I ll draw it, Do I need to put a minimal thickness or can you realise anything whit the same level of details?

Thank you very much for your help and congratulation for your work! :D

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Re:How fine does 3D printing go?

Posted by Marco CM - 2012/05/21 10:22

A good minimum thickness for Nano-Detail materials is 0.5mm. Nano-Detail materials can 3d print much thinner. But those parts would be very fragile.

Sub-surface materials should be a minimum of 1mm thick.

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Re:How fine does 3D printing go?

Posted by Guillaume - 2012/05/21 10:50

Ok It s perfect! It s incredible how this texhnology is progressing :D

I m now going to word a lot on my future 3d print and I ll be back as soon it will be finished!

Thank you again ^^

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Re:How fine does 3D printing go?

Posted by Marco CM - 2012/05/21 10:55

Sure, your welcome. Ask any questions here on the forums.

Happy 3D Modeling / Printing!

-Marco CM

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Re:How fine does 3D printing go?

Posted by Guillaume - 2012/05/21 13:09

Just a last question ^^

Can we hope a "Nano Detail Multicolor" or something like this for the next... year? :D

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Re:How fine does 3D printing go?

Posted by Marco CM - 2012/05/21 13:34

I sure hopes so. I'll tell the makers too get working on it,. ;)

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Re:How fine does 3D printing go?

Posted by Guillaume - 2012/05/21 13:40

lol ok I see ^^

May be not for tomorow so :D Thx again ^^

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