

Printing a flexible material?

Posted by Bryce - 2011/11/15 14:34

I'm looking to create a custom wine stopper, and I'd like to use a "rubbery" material so that I could squeeze the stopper in with a tight fit. Does kraftwurx offer a rubber like flexible material so I could do this?

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Re:Printing a flexible material?

Posted by Waldo - 2011/11/15 14:36

Kraftwurx offers a silicon material that you could use for this. Worst case scenario, you could just get the dimensions right for your piece.

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Re:Printing a flexible material?

Posted by jsantos - 2011/11/15 14:37

That'd be a cool idea, maybe make a really custom bottle holder to go with it

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Re:Printing a flexible material?

Posted by Bryce - 2011/11/15 15:01

Yeah that would be pretty interesting

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Re:Printing a flexible material?

Posted by admin - 2011/11/29 23:57

There are several 3D printing materials that are considered rubber-like or silicon-like. They are produced on an Objet printer. Please see the materials library for more details.

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Re:Printing a flexible material?

Posted by Abby - 2011/12/03 01:07

The materials library here doesn't seem to offer enough explanations for people who don't come from a manufacturing background. I see numbers (hardness, melting point), but I can't imagine if that means the material is like rubber, silicon, ceramic, plastics, etc. It would be helpful to compare the materials to something commonplace. Is there anything that has the consistency of a rubber pencil eraser?

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Re:Printing a flexible material?

Posted by moderntech - 2011/12/14 15:51

Bryce, Objet has a material called Tango which is a rubber material that can be printed. We can also have digital materials that can be picked by shore hardness soft to hard....

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Re:Printing a flexible material?

Posted by admin - 2011/12/18 11:29

The flexible materials are the tango materials. There are several materials all available each with different properties. To learn more check out the materials library. Kraftwurx also bwah a sample kit available. It includes Tango materials.

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Re:Printing a flexible material?

Posted by anachreon - 2012/02/01 09:27

I agree with Abby, the Materials page should have a clearer view on the 'merits' of the materials. Maybe have a separate page with a table, listing them from hard to soft and the headings listing common properties like washable (dishwasher/high temperature?), porous, medical, conductive, etc.

Sometimes you're not looking for a specific feature (which would be in the detail page) or are unfamiliar with a lot of the manufacturing terms.

Let me know if you want me to produce a sample of the listing I have in mind.

Cheers,

Luis.

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Re:Printing a flexible material?

Posted by Marco CM - 2012/02/03 16:52

We absolutely agree with these tips and suggestions. The materials education/information will be expanded. As oppose to using street names alone for materials like "frosted white detail". We plan to educate our community on what the actual technical names and engineering limitations are of each material. We are currently redesigning the product page and material info page. Please do make lists of those terms which may need to revised in order to make the message clearer.

Thank you all for your help and support!

-Marco

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Posted by SarahStorm - 2012/02/04 03:22

I agree. I'd like to see more explanations of material usage etc. I am still trying to figure out what material I want for my wax seal.

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Re:Printing a flexible material?

Posted by Marco CM - 2012/02/06 11:19

Soon the materials information page will be updated. At that point I will make sure the relevant information is posted in lamens terms.

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Re:Printing a flexible material?

Posted by anachreon - 2012/03/01 05:01

Hiya,

There is still a lack of information, as well as some of it being incomplete.

You also need to clarify, for example:

Flexible Clear Tango Plus

(http://www.kraftwurx.com/3d-printing-support/3d-printing-materials-finishes/item/flexible-clear-tango-plu-s?category_id=18)

States it is suitable for 'soft surfaces on consumer electronics, medical devices and automotive interiors'. This to me is misleading if 'medical devices' is not clarified. It could mean:

- For use in a medical environment: No contact with the body.
- Bio Compatible: Which assumes either porlonged skin contact or insertion.

You really need to go through all the material pages and ensure consistency of information as well as clarification.

Cheers,

Luis.

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Posted by Marco CM - 2012/03/01 10:40

Good points Luis. We agree education of the material's properties is vital. Please bare with us as we grow these information resources on the site.

You are always welcome to ask me or admins questions directly via messages, forums, or the site's chat system. Simply friend me, or admin, or anybody you'd like to chat with. I am on-site nearly 24/7, and always on-site 10:00am-7:00pm.

Thank you for your input Luis

Cheers!

-Marco
Community Manager

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