Subject: Clematis design: Will material sag from gravity?
Posted by yanying on Tue, 30 Dec 2008 08:12:14 GMT
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Hello,

I am quite keen to print out a design of mine:
http://www.shapeways.com/model/12133/clematis.html

It has a multitude of freehanging arms. I am not sure whether to print out this design in White Detail or Strong, White & Flexible. (Side note: the model is currently being rendered in dark metal for the metal printing contest.)

Do any of the materials sag from gravity? I had previous experience with 3d printed resin models and they are not very strong structurally. Models with thin arms/beams will just lean to one side or sag to the ground from the weight, if they are not supported.

Thanks for your time. =)

Subject: Re: Clematis design: Will material sag from gravity?
Posted by Whystler on Tue, 30 Dec 2008 15:13:52 GMT
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Beeautiful model

I would probably suggest Strong/White/Flexible to order this model in, because of the strength of the felxibility, and also the ease of removal of the support material.

Because you have thin areas, I think it would be safer this way.

-Whystler

Subject: Re: Clematis design: Will material sag from gravity?
Posted by yanying on Tue, 30 Dec 2008 15:35:23 GMT
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Whystler wrote on Tue, 30 December 2008 10:13I would probably suggest Strong/White/Flexible

to order this model in, because of the strength of the flexibility, and also the ease of removal of the support material. Because you have thin areas, I think it would be safer this way.

Thank you. =) My thinnest area are the tips at 0.2mm... I hope it works out. n_n;;

Subject: Re: Clematis design: Will material sag from gravity?
Posted by Dalhimar on Fri, 23 Jan 2009 03:16:39 GMT
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As far as i know the WSF will not sag, i have some wireframe Geospheres i had printed to test, and they have yet to show signs of degradation from gravity, though there were a few mishaps with sitting down and moving things... lol
Dont worry if you use the WSF it is basically Fused Nylon, a hard/semi-hard plastic like material.

Subject: Re: Clematis design: Will material sag from gravity?
Posted by yanying on Fri, 23 Jan 2009 11:49:19 GMT
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Dalhimar wrote on Thu, 22 January 2009 22:16As far as i know the WSF will not sag, i have some wireframe Geospheres i had printed to test, and they have yet to show signs of degradation from gravity, though there were a few mishaps with sitting down and moving things... lol
Dont worry if you use the WSF it is basically Fused Nylon, a hard/semi-hard plastic like material.

Thanks for the feedback!

The SWF model is printed and sitting on my table already. No signs of sagging so far.. I am quite happy with the result.

Subject: Re: Clematis design: Will material sag from gravity?
Posted by Dalhimar on Fri, 23 Jan 2009 14:02:00 GMT
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Great! and i took a look and it looks awesome. Do you have any plans on painting it?

Subject: Re: Clematis design: Will material sag from gravity?
Posted by yanying on Fri, 23 Jan 2009 15:07:51 GMT
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Dalhimar wrote on Fri, 23 January 2009 09:02Great! and i took a look and it looks awesome. Do you have any plans on painting it?

Actually, I haven't thought about it yet. I was just pretty happy hopping around my table to look at it from different angles, and dragging anybody who passes by to look at it.

Subject: Re: Clematis design: Will material sag from gravity?
Posted by Dalhimar on Sat, 24 Jan 2009 02:19:19 GMT
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I dont blame you lol
Had the same thing happening when i got my Untouchable printed in black =P