Subject: X-Ray Attenuation
Posted by Crissy on Fri, 31 Aug 2012 16:37:13 GMT
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Looking for an OBJET material with higher X-Ray attenuation. Anyone have suggestions or similar experience?

Subject: Re: X-Ray Attenuation
Posted by TechyBen on Thu, 06 Sep 2012 22:47:07 GMT
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I'd suggest looking at the metals (on wiki first?) and what their absorptions/reflection/attenuation is. Then go for a metal. I'd not expect any plastic or resin to do very well.

Hey, wait, are you asking what I think you are?! :blush: 8o

Subject: Re: X-Ray Attenuation
Posted by Crissy on Fri, 07 Sep 2012 15:30:27 GMT
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This was the question posed to me...
"I'm looking for an Objet material that has a higher attenuation for x-rays. X-rays are attenuated by lead which causes a gradual loss of intensity."

Since metal isn't an option, I was wondering which of the plastic/resin based materials would be the best way to go.
Thanks for your answer though!!
:)

Subject: Re: X-Ray Attenuation
Posted by TechyBen on Fri, 07 Sep 2012 22:13:12 GMT
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Well, there are only a couple of times x-rays are ever used. Most are either medical or security. So I'd think many would not be comfortable giving an answer. Other than that, these plastics/resins are not going to have much effect AFAIK (I've not checked the wiki, but as a wild guess, it's the same as other plastics).

Subject: Re: X-Ray Attenuation
Posted by 7777773 on Sat, 08 Sep 2012 05:41:26 GMT
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She was looking for materials with *high* x-ray attenuation.... sort of the opposite you'd expect from someone seeking to defeat an xray security device.
I'd recommend ordering samples and running them through a real life test to see how they fare.

Subject: Re: X-Ray Attenuation
Posted by TechyBen on Sat, 08 Sep 2012 07:57:27 GMT
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I'm not sure really. Both blocking and allowing passing of X-rays can hide (passing through to hide the part, blocking to hide what's in it). :p

Subject: Re: X-Ray Attenuation
Posted by Crissy on Mon, 10 Sep 2012 15:40:52 GMT
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Yes- I think we'll have to run tests ourselves. We just thought someone might have insight on this matter from past experience. No intention of bypassing security devices!
I wish it was something that fun...a real life version of the classic movie 'SNEAKERS' maybe? My voice is my passport :p