

Carbon Fiber

Where does it come from?

- About 90 per cent of carbon fibers produced are made from polyacrylonitrile
- The precursor is drawn into long strands or fibers and then heated to a very high temperature without allowing it to come in contact with oxygen.





What are the Applications & Uses?

Carbon Fiber is used :

- In bikes
- Weaves
- Protective gear
- Phone cases
- cars





What are the properties of this material?

- Stiff can maintain its shape
- Strong can withstand force, pressure or wear
- Light can be carried around or worn easily
- High Chemical Resistance can withstand the effects of most chemicals
- High temperature tolerance does not melt or freeze too easily





Choose one product made from this material & explain why it is used in this object?

- Light and can be worn without uncomfort
- Chemical resistance allows to be cleaned with water
- Can absorb large amounts of damage due to strength







CBA 1 Evaluation

Research & Analysis (The origin of the Material):
Do you think you found out all the relevant information about where the material came from? Yes, I shink I have found enough information
about the enigin of the Material.
How did you get on researching the material's origin?
is a list difficult in the first half an hour, but afterwards, if got a bir easier.
Highlight a few areas where you can improve your investigation? I shink
information.
Properties & Applications of the Material:
Were you successful at finding out about the properties? Yes, 1 Munh
I found our about the properties was en rimple tack.
Explain how you found out about the properties? \ /www. out about
the moperines by nesearthing in on the member.
Highlight where you can improve on these sections of the task?
I would have improved by adding a few were piecures and
a few nome names for the applications.
Were you happy with the way the properties section turned out?
was happy with how the properties section would and
How would you rate your investigation of the applications? 1
I did well wish my invessigation of the applications and I
would were it 7/10.

Engineering - Classroom-Based Assessment 1



Properties & Applications of the Material:
How did you get on researching the material's uses? \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
since easy to housearch the uses for the given muterial
(rarbon filer).
Highlight where you can improve on these sections of the task? I would
improve by further explaining the use of the maxerial in the
applications rection.
Chosen Product
Do you think the product you chose was appropriate? Yes, I shark the
produce I those was appropriate, because is explaine why
the marginal is used in the prollect.
- 10-12 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -
Did you provide detailed information on why the product needs the mate-
rial to work? Yes I shink I provided beauted information on way
the module needs the marerial to work.
The following the many and the
What new skills did you learn in this task? I learned a few new
rechniquees so researching, inserting servores and borders, and I learned
to leave links to the websites where I source my muyes from.
What aspects of the task went well? I shink she reserved were well
for all of the services.
- V - V - V - V - V - V - V - V - V - V
What aspects of the task could have went better?
1
have were udded more images.
- V . t loved of
Did you find the task good for your learning? Yes, 1 found the
task good for my learning.
Did you find the task enjoyable? Yes I hound the tusk enjoyable.



Teacher Annotations

The research method used was appropriate and showed a good level of analysis when researching the material.

The Classroom-Based Assessment did show some awareness of engineering principles where cabon fiber is used as an engineering material

There was a brief level of evaluation evident in responses.

The Classroom-Based Assessment was well presented with good use of images.

Overall Judgement

In line with expectations







