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Materials + Introduction to processing ACMA4000

Question 3

(a) b4c would be my choice. It gives the best YM - Density and minimum mass which would be required for a chassis

(b) foams, Natural materials, Polymers, Elastomers

All of these I wouldn't consider based on the lower YM. Stress would be placed on the chassis and would yield with these materials

(c) Carbon fibre Positives

- light

- Strong

- Corrosion resistant

- low density

negatives - high stiffness brittle

Steel.

- Strong

- Durable

- light