## Some exam questions from last year

**From Massow:**

1. What are the Main steps for material selection? (Translate, screen, Rank, document, local factors)

2. The 4 steps within Translation? (Function, Constraints, objectives, free variables)

3. Shape factors and what mechanical efficiency mean.

**From Schillfahrt:**

1. Name 5 material properties with units.

2. What bonding do we know for Plastics and ceramics? Ionic, convalent, Dipole-Dipole, Dispersions forces, Hydrogen forces.

3. And the last one was Matching the Temperature/stress curves and the corresponding use temperatures

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**Schillfahrt -**

1) What are the 6 properties of composite for Polymer Matrix Composites?

2) Identify the 4 types of polymers, draw them and explain them how different they are.

3) If u have to design a object with strain at 1,5%, Tmax at 40°C, what do you do in order to determine elastic modulus?

**From Massow -**

1) Explain the 7 steps in the translation procedure

2) When u don't have as much free variables as needed for the substitution, what is the procedure?

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