Assignment 3

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

1. The correct statement(s), amongst the following are: 1 point
   - Polymer is a textile structure without incorporation of a matrix
   - Polymer is a textile structure with incorporation of a matrix
   - Prepreg is a textile structure without incorporation of a matrix
   - Prepreg is a textile structure with incorporation of a matrix

   Your answer: Prepreg is a textile structure without incorporation of a matrix
   Accepted Answers:
   - Polymer is a textile structure without incorporation of a matrix
   - Polymer is a textile structure with incorporation of a matrix
   - Prepreg is a textile structure without incorporation of a matrix
   - Prepreg is a textile structure with incorporation of a matrix

2. Flexible bonding is produced by 1 point
   - Coating
   - Powder Coating
   - Liquid impregnation
   - Film coating

   Your answer: Film coating
   Accepted Answers:
   - Coating
   - Powder Coating
   - Liquid impregnation
   - Film coating

3. Powder sintering process 1 point
   - Reduces melt flow distance between reinforcing fibres
   - Enhances melt flow distance between reinforcing fibres
   - Produces a feathery bonding
   - Produces a rigid bonding

   Your answer: Reduces melt flow distance between reinforcing fibres
   Accepted Answers:
   - Reduces melt flow distance between reinforcing fibres
   - Produces a feathery bonding
   - Produces a rigid bonding
   - Enhances melt flow distance between reinforcing fibres

4. Film when used as reinforcement in PP matrix without any surface modification 1 point
   - Has higher interfacial bonding
   - Has lower interfacial bonding
   - Has higher load transfer from fibre to matrix
   - Has lower load transfer from fibre to matrix

   Your answer: Has higher interfacial bonding
   Accepted Answers:
   - Has higher load transfer from fibre to matrix
   - Has lower load transfer from fibre to matrix
   - Has lower interfacial bonding
   - Has higher interfacial bonding

5. Thermally bonded film-Polypropylene hybrid yarns in comparison to twisted Film-Polypropylene hybrid yarn 1 point
   - Will have higher fibre load contribution along axial direction
   - Will have lower fibre load contribution along axial direction
   - Will have better consolidation on composite formation
   - Will have inferior consolidation on composite formation

   Your answer: Will have higher fibre load contribution along axial direction
   Accepted Answers:
   - Will have higher fibre load contribution along axial direction
   - Will have lower fibre load contribution along axial direction
   - Will have inferior consolidation on composite formation
   - Will have better consolidation on composite formation

6. Hybrid yarns are used for thermoplastic composites 1 point
   - To reduce the melt flow distance during composite manufacturing
   - To increase the melt flow distance during composite manufacturing
   - To increase the void content in the composite
   - To reduce the void content in the composite

   Your answer: To reduce the melt flow distance during composite manufacturing
   Accepted Answers:
   - To reduce the melt flow distance during composite manufacturing
   - To increase the void content in the composite
   - To reduce the void content in the composite

7. With reference to PlasTron composite 1 point
   - Film is hydrophobic and Polypropylene is hydrophobic
   - Both Film and Polypropylene are hydrophobic in nature
   - Film is made more compatible with Polypropylene using MgCl2
   - Film is inherently compatible with Polypropylene

   Your answer: Film is hydrophobic and Polypropylene is hydrophobic
   Accepted Answers:
   - Film is inherently compatible with Polypropylene
   - Film is hydrophobic and Polypropylene is hydrophobic
   - Film is made more compatible with Polypropylene using MgCl2
   - Both Film and Polypropylene are hydrophobic in nature

8. MgCl2 treatment on Film-Poly 1 point
   - Increases the tensile strength of Film-Poly unreinforced composites
   - Increases the tensile modulus of Film-Poly unreinforced composites
   - Decreases the tensile strength of Film-Poly unreinforced composites
   - Decreases the tensile modulus of Film-Poly unreinforced composites

   Your answer: Increases the tensile strength of Film-Poly unreinforced composites
   Accepted Answers:
   - Increases the tensile modulus of Film-Poly unreinforced composites
   - Increases the tensile strength of Film-Poly unreinforced composites
   - Decreases the tensile modulus of Film-Poly unreinforced composites
   - Decreases the tensile modulus of Film-Poly unreinforced composites

9. With increasing the natural fibre content and number of passes of thermally bonded mixing 1 point
   - Tensile strength of unreinforced composite increases
   - Tensile modulus of unreinforced composite increases
   - Tensile strength of unreinforced composite decreases
   - Tensile modulus of unreinforced composite decreases

   Your answer: Tensile strength of unreinforced composite increases
   Accepted Answers:
   - Tensile modulus of unreinforced composite increases
   - Tensile strength of unreinforced composite decreases
   - Tensile modulus of unreinforced composite decreases
   - Tensile strength of unreinforced composite increases

10. With increasing the natural fibre content and number of passes of thermally bonded mixing 1 point
    - Flexural strength of unreinforced composite increases
    - Flexural modulus of unreinforced composite increases
    - Flexural strength of unreinforced composite decreases
    - Flexural modulus of unreinforced composite decreases

    Your answer: Flexural strength of unreinforced composite increases
    Accepted Answers:
    - Flexural modulus of unreinforced composite increases
    - Flexural strength of unreinforced composite decreases
    - Flexural modulus of unreinforced composite decreases
    - Flexural strength of unreinforced composite increases