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Courses » Introduction To Composites

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## Unit 4 - WEEK 03

Register for  
Certification exam

### Course outline

How to access  
the portal

WEEK 01

WEEK 02

WEEK 03

- Lecture 13: Polymers as matrix material and their classification
- Lecture 14: Thermoset and thermoplastic matrix materials
- Lecture 15: Properties of thermoset and thermoplastic materials
- Lecture 16: Production methods
- Lecture 17: Thermoplastics and metals as matrix materials
- Lecture 18: Ceramic, and carbon matrix materials and

## Assignment 03

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-02-20, 23:59 IST.**

1) Which of the following is not a thermoset material? **1 point**

- Melamine
- Bakelite
- Poly-ether-ether ketone (PEEK)
- Epoxy

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Poly-ether-ether ketone (PEEK)*

2) Which of the following is not true for polymer matrix materials? **1 point**

- Low cost processing
- Higher toughness
- High temperature range.
- Chemical resistance

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*High temperature range.*

3) Glass transition temperature is especially relevant while characterizing: **1 point**

- Thermosets
- Thermoplastic
- Additives
- Ceramics

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Assignment 3 Solution

WEEK 04

WEEK 05

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WEEK 08

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WEEK 12

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Interaction Session

Matrix

Fiber

Both fails at same time

Can't define

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*Fiber*

5) For glass fibers which of the following is typically used as matrix material? **1 point**

Thermoplastic polymers

Thermoset polymers

Ceramic

Metal

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*Thermoset polymers*

6) There are two matrix material A and B with same chemical constituents. Density of A is greater than that of B. Then, it is likely that **1 point**

Both are amorphous.

Both are semi crystalline.

A is amorphous.

A is semi crystalline.

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*A is semi crystalline.*

7) Identify a suitable fiber for ceramic matrix based high temperature composites. **1 point**

Carbon

Kevlar

Silicon carbide

Glass

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*Silicon carbide*

8) The following composites which is used most often. **1 point**

Metal Matrix Composites.

Polymer Matrix Composites.

Ceramic Matrix Composites.

iv) None of these.

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:***Polymer Matrix Composites.*

9) Some of the more common fibers used in advanced polymer composites are:

**1 point**

- Glass, steel, and aluminum.
- Glass, graphite, and Kevlar.
- Glass, steel, and Kevlar.
- None of these.

**No, the answer is incorrect.****Score: 0****Accepted Answers:***Glass, graphite, and Kevlar.*

10) Thermoset plastic polymers have following type of bonding.

**1 point**

- Covalent bond.
- Van der Waals bond.
- Atomic bond.
- None of these.

**No, the answer is incorrect.****Score: 0****Accepted Answers:***Covalent bond.*[Previous Page](#)[End](#)