

NPTEL » Processing of Polymers and Polymer Composites



Announcements

About the Course

Ask a Question

Mentor **Progress**

1 point

Unit 7 - Week 6

How does an NPTEL online

Course outline

course work?

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Sheet molding

composites

Adhesive joining

Week 7

Week 8

Text Transcripts

DOWNLOAD VIDEOS

WEEKLY FEEDBACK

No, the answer is incorrect. Score: 0

Accepted Answers:

1, 2 and 3

Ouiz: Assignment 6

Solution For Assignment 6

 Pre-pregging and challenges in primary processing of

 Secondary processing of polymer composites

Joining of polymer composites

As per our records you have not submitted this assignment. 1) Diffusion bonding is mainly applicable for thermoplastics; True False No. the answer is incorrect. Score: 0 In adhesive joining, during mechanical interlocking, bonding happens due to interlocking of adhesive and adherend. True False No. the answer is incorrect. Score: 0 Joining of individual component needs several operations that fall under secondary processing of polymer composites. True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 Accepted Answers: True False No. the answer is incorrect. Score: 0 A	The due date for submitting this assignment has passed.	Due on 2020-03-11, 23:
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4) Special environment such as refrigeration is required for the storage of prepregs. True False No, the answer is incorrect. Score: 0 Accepted Answers: True 5) The different types of adhesive joints are; Double lap Single cover lap Scarf lap 1 and 3 2 and 3 1 and 2		
True False No, the answer is incorrect. Score: 0 Accepted Answers: True 5) The different types of adhesive joints are; Double lap Single cover lap Scarf lap 1 and 3 2 and 3 1 and 2	True	
No, the answer is incorrect. Score: 0 Accepted Answers: True 5) The different types of adhesive joints are; Double lap Single cover lap Scarf lap 1 and 3 2 and 3 1 and 2	Special environment such as refrigeration is required for the storage of prepregs.	
No, the answer is incorrect. Score: 0 Accepted Answers: True 5) The different types of adhesive joints are; Double lap Single cover lap Scarf lap 1 and 3 2 and 3 1 and 2	○ True	
Score: 0 Accepted Answers: True 5) The different types of adhesive joints are; Double lap Single cover lap Scarf lap 1 and 3 2 and 3 1 and 2	False	
Accepted Answers: True 5) The different types of adhesive joints are; Double lap Single cover lap Scarf lap 1 and 3 2 and 3 1 and 2	No, the answer is incorrect.	
True 5) The different types of adhesive joints are; Double lap Single cover lap Scarf lap 1 and 3 2 and 3 1 and 2		
Double lap Single cover lap Scarf lap 1 and 3 2 and 3 1 and 2		
Double lap Single cover lap Scarf lap 1 and 3 2 and 3 1 and 2	5) The different types of adhesive joints are:	
Scarf lap 1 and 3 2 and 3 1 and 2	Double lap	
2 and 3 1 and 2		
○ 1 and 2	○ 1 and 3	
	2 and 3	
0 1, 2 and 3	1 and 2	
	O 1, 2 and 3	

○ False	
No, the answer is incorrect.	
Score: 0	
Accepted Answers: True	
2) In adhesive joining, during mechanical interlocking, bonding happens due to interlocking of adhesive and adherend.	1 point
○ True ○ False	
No, the answer is incorrect.	
Score: 0	
Accepted Answers: True	
 Joining of individual component needs several operations that fall under secondary processing of polymer composites. 	1 point
True	r ponit
○ False	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
True	
4) Special environment such as refrigeration is required for the storage of prepregs.	1 point
○ True	
○ False	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
True	
5) The different types of adhesive joints are;	1 point
1 Double lap 2 Single cover lap	
3 Scarf lap	
○ 1 and 3	
2 and 3	
0 1 and 2	
O 1, 2 and 3	
No, the answer is incorrect. Score: 0	
Accepted Answers: 1, 2 and 3	
The process used to enhance the surface energy on adherend surface is (are)	1 point
O Plasma treatment	
O Ion treatment	
Corona discharge treatment All of these	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
All of these	
7) The correct statements in context of adhesive joining are;	1 point
1 Ability to join different materials	
2 Adhesive bonding usually requires extensive surface preparation before bonding 3 Inspection of an adhesively bonded joint is difficult	
② 2 and 3	
○ 1, 2 and 3	
○ 1 and 3	
○ 1 and 2	
No, the answer is incorrect. Score: 0	
Accepted Answers: 1, 2 and 3	
r, z and s	
The factors influencing the fusion bonded joints are; Material properties.	1 point
1 Material properties 2 Welding pressure	
3 Heating duration	
○ 1 and 3	
0 1 and 2	
○ 1, 2 and 3 ○ 2 and 3	
No, the answer is incorrect.	
Score: 0	
Accepted Answers: 1, 2 and 3	
Resistance, induction and microwave welding, falls under the broad area of	1 point
	rpoint
Friction welding Electromagnetic welding	
Thermal welding	
O All of these	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Electromagnetic welding	
10) The correct statements about pre-pegging techniques are;	1 point
1 Extreme care is required during packing and storage of prepregs	
2 Better control over the thickness of the laminate is ensured	
2 Better control over the thickness of the laminate is ensured 3 Aramid fiber prepregs are used in making bullet proof vests	
3 Aramid fiber prepregs are used in making bullet proof vests	