Assignment 11

Due on 2020-04-22 22:59:00.0

1. State Yoon-U's data. 
A cross-linked polymer with lower degree of cross-linking will swell less.

Data: True

2. The proportion of the polymer network is 2.5g and the weight of the smaller polymer network is 1.2g. The swelling ratio based on weight will be ___________.

Answer: NA

3. Stress modulus as a function of frequency is shown in the following figure, for different samples of monodisperse polystyrene.

Identify the region from the figure (circle digit 1, 2 or 3): 

Data: True

4. Viscous terminal region ______

Answer: Accepted Answers: True, False

5. Biaxiality effects. The measurement in the figure is for different samples of polystyrene.

Data: True

6. The axes indicates the following in which sample of polystyrene: 

- Has higher elasticity
- Has lower elasticity
- Has increasing and decreasing elasticity
- Has decreasing and increasing elasticity

Answer: Accepted Answers: True, False

7. Henckel Bulky monomer is given by: 

\[ r = \frac{1}{2} (r + b) \]

Data: True

8. Henckel Bulky monomer reduces to Hamaker fluid when: 

Data: True

9. When \( K = 8 \) and \( M = 5 \), Henckel Bulky monomer reduces to \( r = \frac{1}{2} \). At any value of chain ratio is a constant rate of stress, \( r_{max} \) helps the: 

Data: True

10. Association (intermolecular interaction and bonding) (interpolymer or environment) phenomena are all necessary to understand the impact of polymers. 

Data: True

11. The amount of amount of smal molecule at the interface of polymer and environment and the total amount of small molecules in bulk polymer and environment phase: 

Data: True

12. Difference between concentration of the polymer in polymer phase and concentration of the total monomer is environment phase. 

Data: True

13. Cinnamic Tertiary monomer used most often to describe the: 

- Van der Waals forces
- Hydrogen bonding
- Covalent secondary peptide bond
- Hydrogen deficiency of polymer and solvent

Answer: Accepted Answers: True, False

Alternative ways for extension of polymer yield, and that to the branched polymers are never desired to improve polymer processing outcomes such as the: 

Data: True

15. False

Answer: Accepted Answers: True, False