

Name _____

1. What is a fiber-reinforced composite? What is the purpose in designing this kind of material?
2. When a unidirectional composite is loaded parallel the fiber direction, the case is called (isostrain, isostress). When a unidirectional composite is loaded perpendicular to the fiber direction, the case is called (isostrain, isostress). Explain why.
3. What is stress relaxation of polymer?
4. Is thermoplastic polymers ductile or brittle? Why?
5. Is thermosetting polymers ductile or brittle? Why?