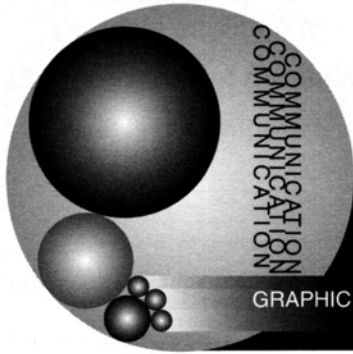


Name \_\_\_\_\_

Date \_\_\_\_\_ Score \_\_\_\_\_

# Flexographic Printing

# 21



## Learning Objectives

After studying this chapter, you will be able to:

- Describe the flexographic process.
- Recognize various types of presses used in flexography.
- Identify the types of substrates, inks, and plates used in flexography.

Answer the following questions. Write your answer in the space provided.

1. Flexography is one of the most widely used printing processes because of its ability to print high quality graphics on \_\_\_\_\_. 1. \_\_\_\_\_

2. Why are flexographic inks ideal for printing on polyethylene products?  
\_\_\_\_\_  
\_\_\_\_\_

3. Flexography was originally known as \_\_\_\_\_ printing because of the dyes used to color the ink. 3. \_\_\_\_\_

4. What is an *anilox roll*? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. What is the purpose of the doctor blade in a flexographic press?  
\_\_\_\_\_  
\_\_\_\_\_

6. Identify the different parts of the flexographic ink delivery system on the following page.

A. \_\_\_\_\_

B. \_\_\_\_\_

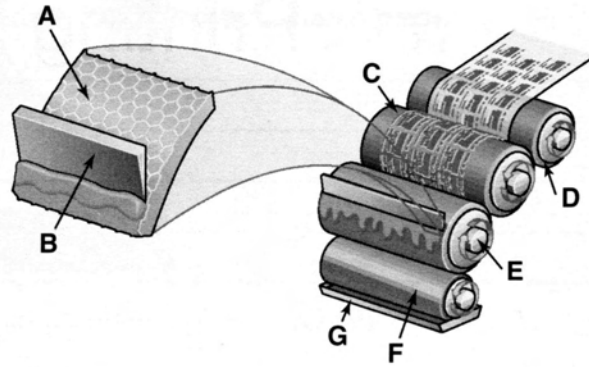
C. \_\_\_\_\_

D. \_\_\_\_\_

E. \_\_\_\_\_

F. \_\_\_\_\_

G. \_\_\_\_\_



7. A(n) \_\_\_\_\_ flexographic press has separate print stations placed in a straight line.

7. \_\_\_\_\_

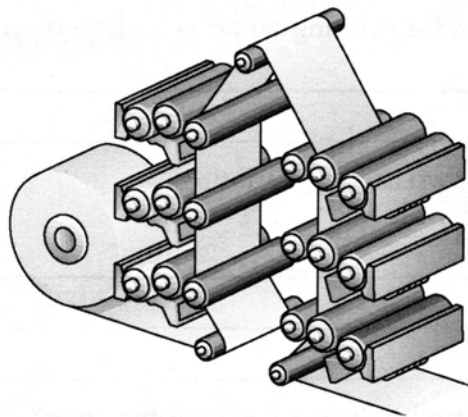
- a. two-cylinder
- b. central impression cylinder
- c. stack
- d. inline

8. Flexographic presses are \_\_\_\_\_ printing machines and print on every \_\_\_\_\_ of the cylinders to a moving web of substrate material.

8. \_\_\_\_\_

9. The \_\_\_\_\_ press shown below was the first type of press developed for flexographic printing.

9. \_\_\_\_\_



10. What are two limitations of the rubber plate molding process?

\_\_\_\_\_

\_\_\_\_\_

11. \_\_\_\_\_ plates have a longer life than rubber plates and will eventually dominate the flexographic industry.

11. \_\_\_\_\_

12. What type of plate is imaged directly by a computer?

\_\_\_\_\_

13. Flexographic plate elongation depends on what two factors?

\_\_\_\_\_

\_\_\_\_\_

Name \_\_\_\_\_

14. In the flexographic pin-register system, punched holes in the plate are fitted to pins on the \_\_\_\_\_. 14. \_\_\_\_\_

15. The surface of the anilox roll is engraved with \_\_\_\_\_. 15. \_\_\_\_\_

16. How is ink volume regulated on a flexographic press?

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17. What is *repeat length*?

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18. A Zahn cup is used to measure ink \_\_\_\_\_. 18. \_\_\_\_\_

19. \_\_\_\_\_ inks used in flexography must maintain a critical pH. 19. \_\_\_\_\_

- a. Alcohol-based
- b. Water-based
- c. Polyamide
- d. Paste

20. Discuss the overall strengths and weaknesses of flexography as a major printing process.

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