

PROBLEM 2.1

A nylon thread is subjected to a 8.5-N tension force. Knowing that $E = 3.3$ GPa and that the length of the thread increases by 1.1%, determine (a) the diameter of the thread, (b) the stress in the thread.

SOLUTION

(a) Strain: $\epsilon = \frac{\delta}{L} = \frac{1.1}{100} = 0.011$

Stress: $\sigma = E\epsilon = (3.3 \times 10^9)(0.011) = 36.3 \times 10^6 \text{ Pa}$

$$\sigma = \frac{P}{A}$$

Area: $A = \frac{P}{\sigma} = \frac{8.5}{36.3 \times 10^6} = 234.16 \times 10^{-9} \text{ m}^2$

Diameter: $d = \sqrt{\frac{4A}{\pi}} = \sqrt{\frac{(4)(234.16 \times 10^{-9})}{\pi}} = 546 \times 10^{-6} \text{ m}$ $d = 0.546 \text{ mm} \quad \blacktriangleleft$

(b) Stress: $\sigma = 36.3 \text{ MPa} \quad \blacktriangleleft$

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