

Velocity in teflon.

$$C = \frac{1}{\sqrt{\mu \epsilon}}$$

$$\mu = \mu_r \mu_0$$

$$\epsilon = \epsilon_r \epsilon_0$$

we know that

$$\epsilon_0 = 8.854 \times 10^{-12} \text{ F/m}$$

$$\mu_0 = 4\pi \times 10^{-7} \text{ H/m}$$

For teflon

$$\mu_r = 1$$

$$\epsilon_r = 2.1$$

$$C = \frac{1}{\sqrt{\mu_r \mu_0 \cdot \epsilon_r \epsilon_0}}$$

$$C = \frac{1}{\sqrt{1 \times 4\pi \times 10^{-7} \times 2.1 \times 8.854 \times 10^{-12}}}$$

$$C = 2.068 \times 10^8 \text{ m/s}$$

Teflon.

$$f_c = \frac{c}{2} \sqrt{\left(\frac{m}{a}\right)^2 + \left(\frac{n}{b}\right)^2}$$

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