

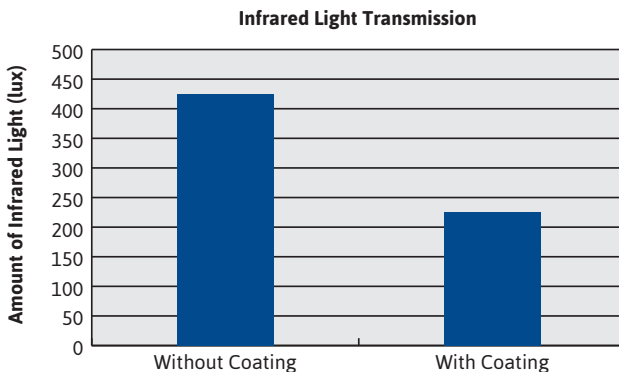
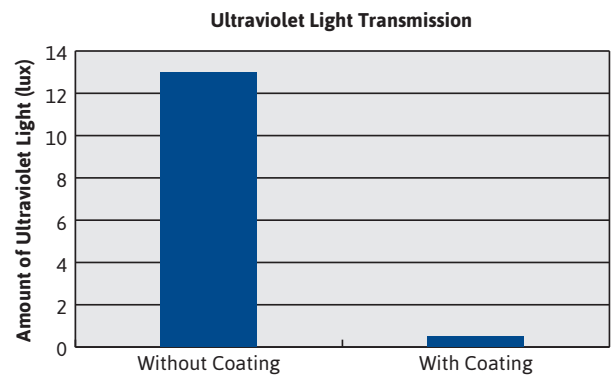
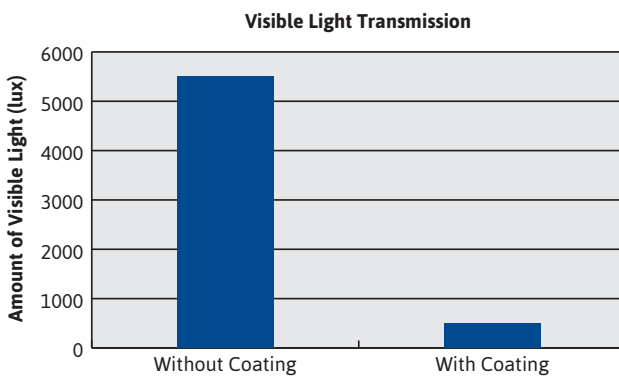


Homework 13.1 – UV Light and UV/IR Imagery

Purpose

You probably know someone who wears glasses to help them see better. This homework asks you to think about an imaginary company that has invented some special glasses. As you do this homework, you will apply what you have learned about ultraviolet and infrared light.

A company that makes eyeglasses claims to have developed a special coating for the lenses. They say that the coating will block 100% of the UV and 50% of the IR light that hits the lenses. The following graphs show data for the visible, UV, and IR light transmitted by eyeglasses with and without the coating.



1. Look carefully at the graphs. Do the data support the claim that the glasses block 100% of the UV and 50% of the IR light that hits the lenses?
What evidence do you have to support your answer?
2. Would it be a good idea for people to have this coating on eyeglasses that they wear every day? Explain.