



## Window Material for Proximity and Reflective Sensors

Proximity and reflective sensors typically need to be protected by a window. Because these sensors emit and receive near infrared light, the material needs to be as transmissive as possible. Vishay recommends the use of infrared transmissive polycarbonate. Lexan by SABIC, Arla by Arla Plast, or Makrolon by Covestro are three suppliers of infrared transmissive polycarbonate.

For example, Makrolon 2405, 2407 and 2456 polycarbonates are extremely robust, lightweight, near infrared transparent, and impact resistant. The window material in the graphs below appear black but other color formulations are available. Near infrared transmissivity is 90 %.

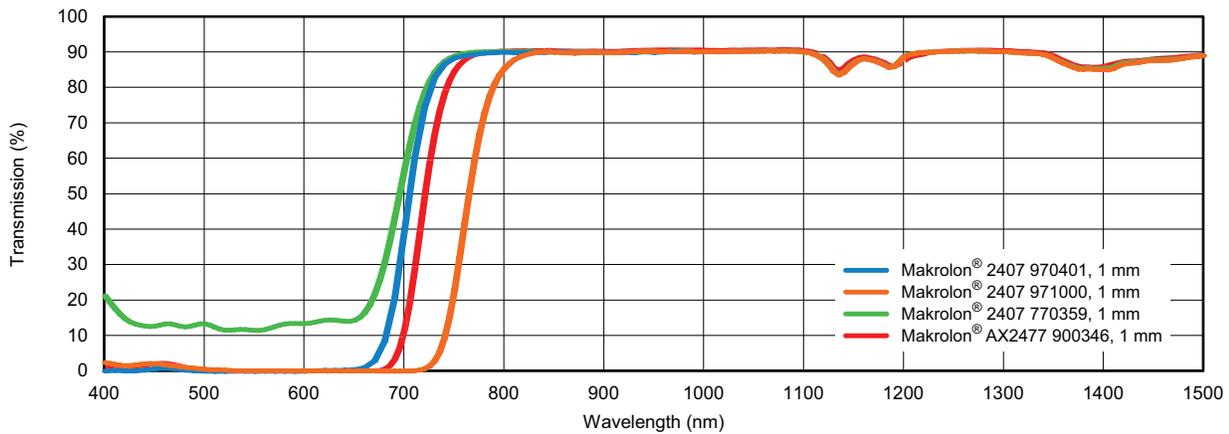


Fig. 1

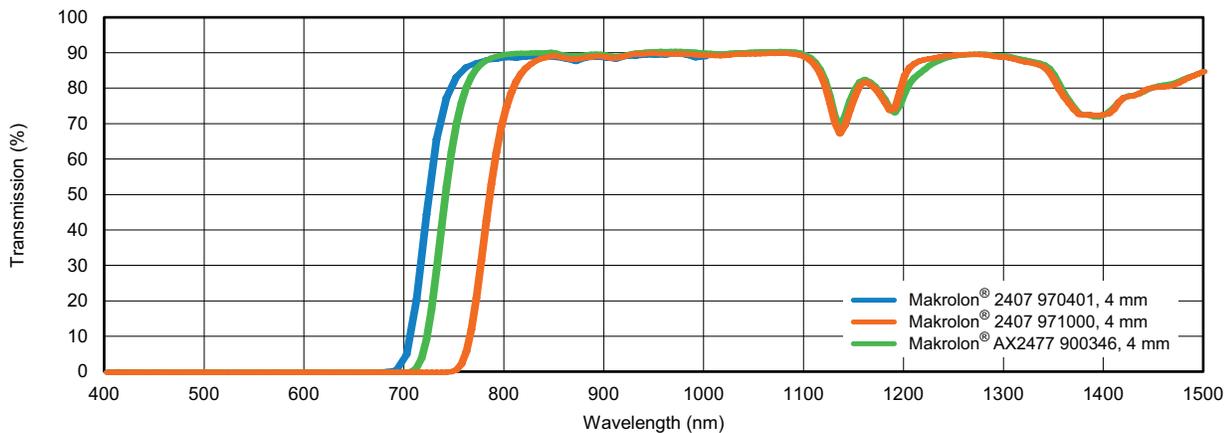


Fig. 2

Check your local listings for a contact near you.