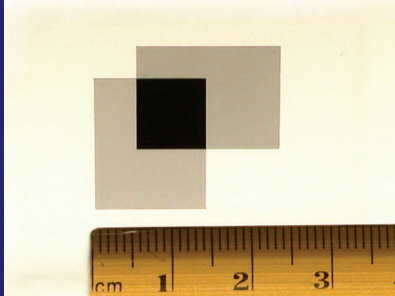
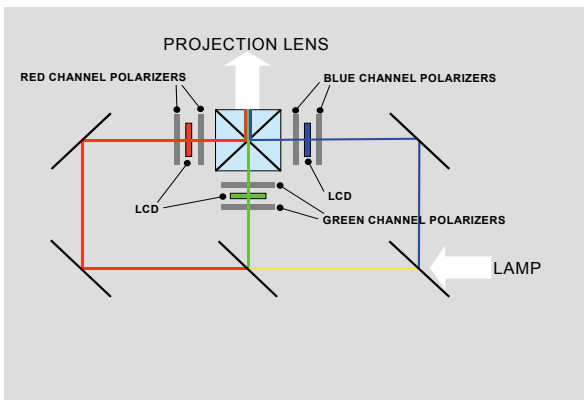




# 3M Vikuiti™ KE Polarizer



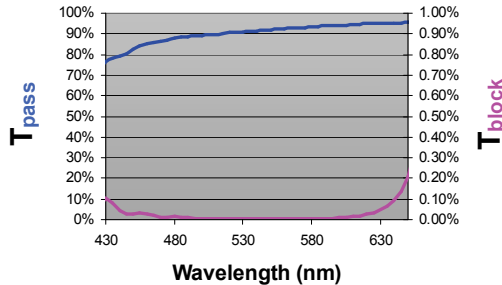
- 3M KE polarizers are *intrinsic, durable, absorptive* polarizers
- 3M KE polarizers are *long-term optically and mechanically stable* at elevated temperatures and high humidity
- Unique 3M KE technology enables *high projection brightness* and *high contrast* with *long life*
- 3M's solution enables the *simplification of the projection engine design*



# Specifications

## Optical Performance (on fused silica and with AR coating)

### Spectral Transmission



	Blue (435 - 500 nm)	Green (500 - 590 nm)
Average $T_{pass}$	82% +/- 3%	91% +/- 3%
Average $T_{block}$	$\leq 0.06\%$	$\leq 0.03\%$

## Environmental Durability (accelerated test)

Test Condition	$T_{pass}$ Avg Change (%) (435 - 500 nm)	Avg $T_{block}$ (%) (435 - 500 nm)	$T_{pass}$ Avg Change (%) (500 - 590 nm)	Avg $T_{block}$ (%) (500 - 590 nm)
100°C, 240 hrs	$-5.0 \leq \Delta T_{pass} \leq 0$	$T_{block} \leq 0.09$	$-2.5 \leq \Delta T_{pass} \leq 0$	$T_{block} \leq 0.06$
60°C/90%RH, 240 hrs	$0 \leq \Delta T_{pass} \leq 3.5$	$T_{block} \leq 0.09$	$0 \leq \Delta T_{pass} \leq 2.5$	$T_{block} \leq 0.06$
-20°C(3 hr)/+80°C(3 hr), 70 cycles	$-3.0 \leq \Delta T_{pass} \leq 0$	$T_{block} \leq 0.09$	$-2.5 \leq \Delta T_{pass} \leq 0$	$T_{block} \leq 0.06$



3M Precision Optics, Inc.  
3997 McMann Road  
Cincinnati, Ohio 45245  
USA  
Phone: 513-943-5456  
Fax: 513-752-2841  
www.vikuiti.com

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