# photobiologyFilters Version 0.1.5 Catalogue of filters

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#### 1 Introduction

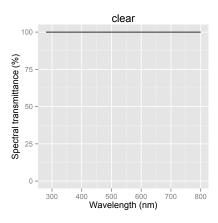
```
library(ggplot2)
library(photobiologyFilters)

## Loading required package: photobiology

filter.plotter <- function(filter_name, w.low = 280, w.high = 800, ylab = "Spectral transmittance (%)") {
    spectrum.data <- data.frame(w.length = seq(280, 800, length.out = 300))
    spectrum.data$transmittance <- calc_filter_multipliers(spectrum.data$w.length,
        filter_name, pc = TRUE)
    fig_linear <- ggplot(aes(x = w.length, y = transmittance), data = spectrum.data) +
        labs(x = "Wavelength (nm)", y = ylab, title = filter_name) + ylim(0,
        100) + geom_line()
    # fig_log <- fig_linear + scale_y_log10(limits=c(1e-5,30))
    print(fig_linear)
    # print(fig_log)
}</pre>
```

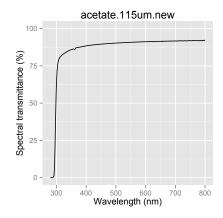
### 2 Clear filter

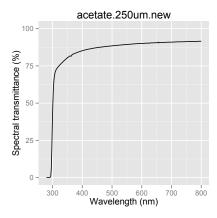
filter.plotter("clear")

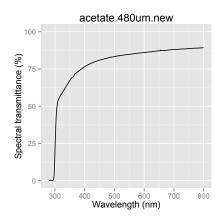


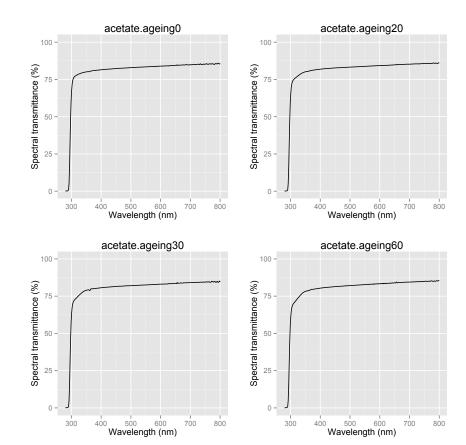
#### 3 Cellulose diacetate

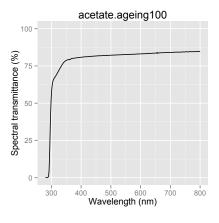
```
for (filter in c("acetate.115um.new", "acetate.250um.new", "acetate.480um.new")) {
   filter.plotter(filter)
}
```

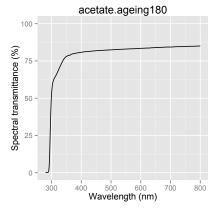


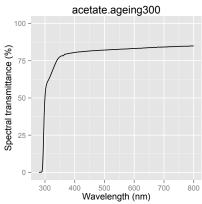






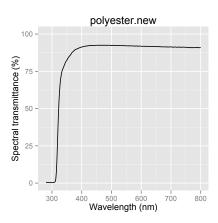






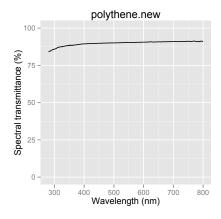
# 4 Polyester

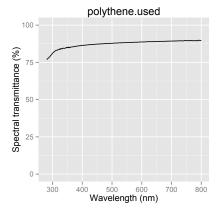
filter.plotter("polyester.new")



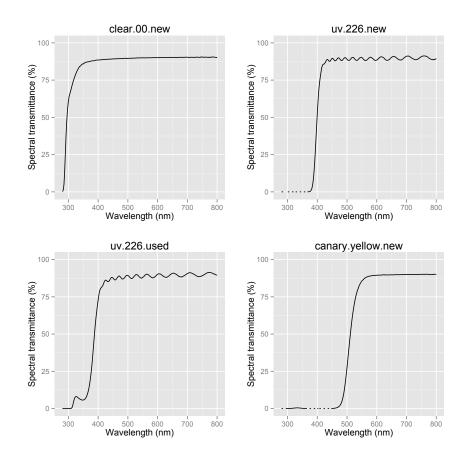
## 5 Polythene

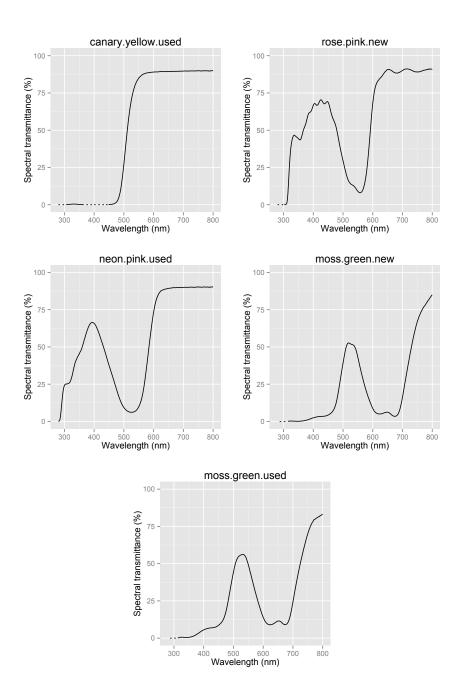
```
filter.plotter("polythene.new")
filter.plotter("polythene.used")
```





#### 6 Rosco filters





# 7 BPI AGri Visqueen

```
for (filter in c("solatrol.new", "luminance.new")) {
   filter.plotter(filter)
}
```

