

# photobiologyFilters Version 0.3.2

## Catalogue of filters

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## 1 Introduction

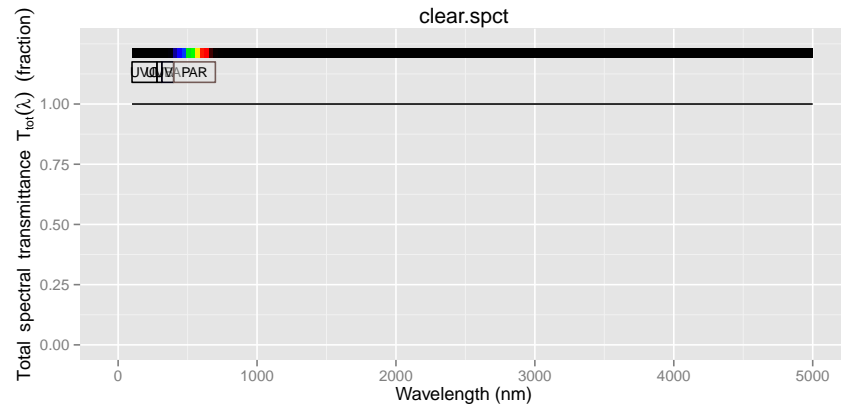
```
library(ggplot2)
library(photobiologyFilters)
library(photobiologygg)
```

```
options(photobiology.plot.annotations = c("boxes", "labels", "colour_guide", "title"))
```

## 2 Dummy filters

### 2.1 Perfectly clear filter

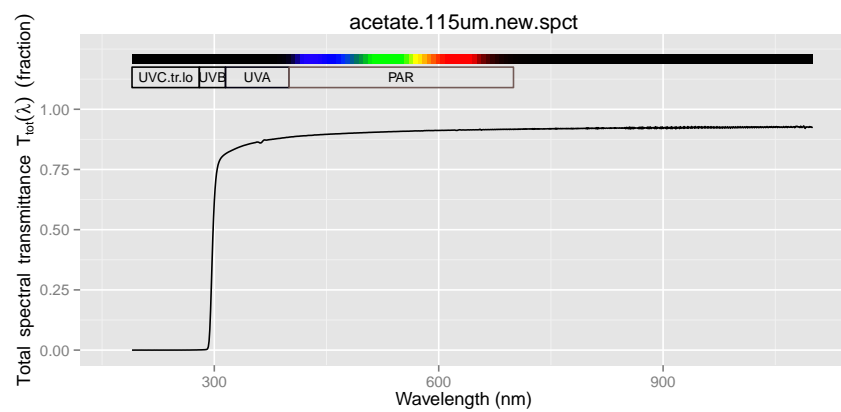
```
plot(clear.spct)
```

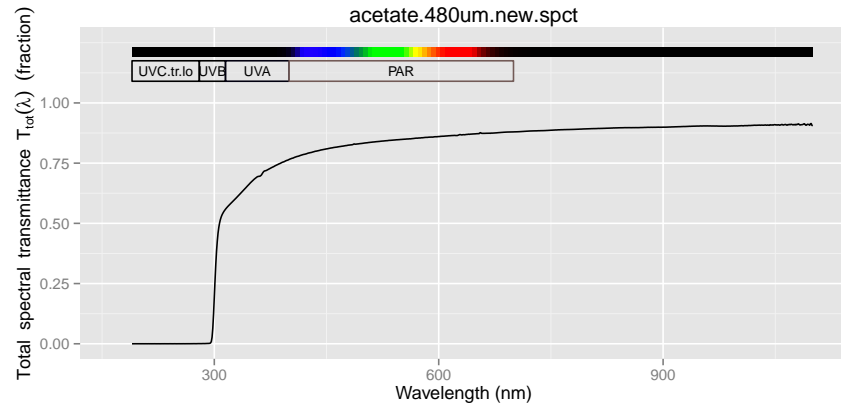
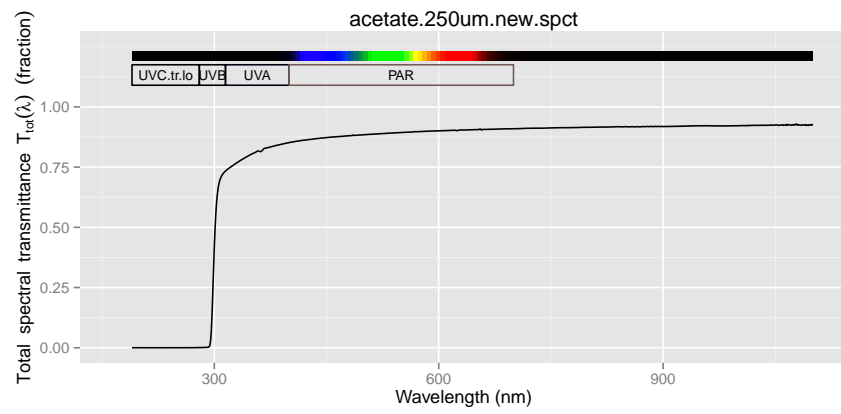


## 3 Plastic films

### 3.1 Cellulose diacetate

```
plot(acetate.115um.new.spct)
plot(acetate.250um.new.spct)
plot(acetate.480um.new.spct)
```

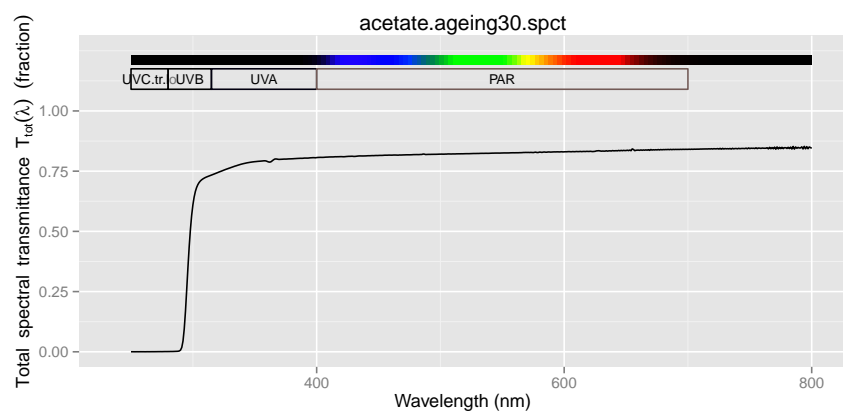
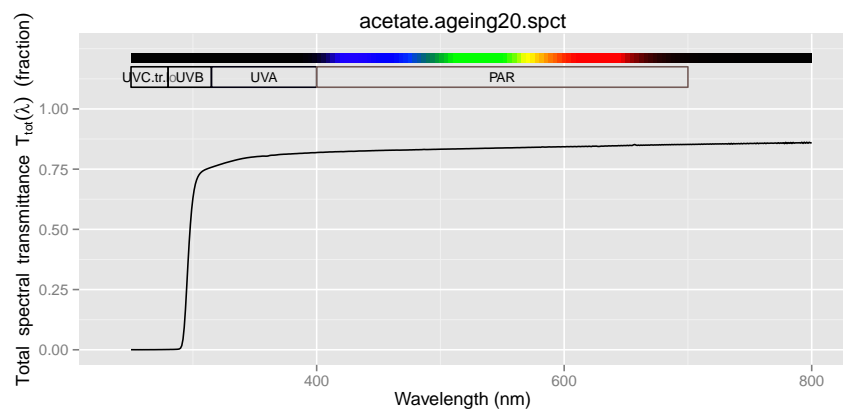
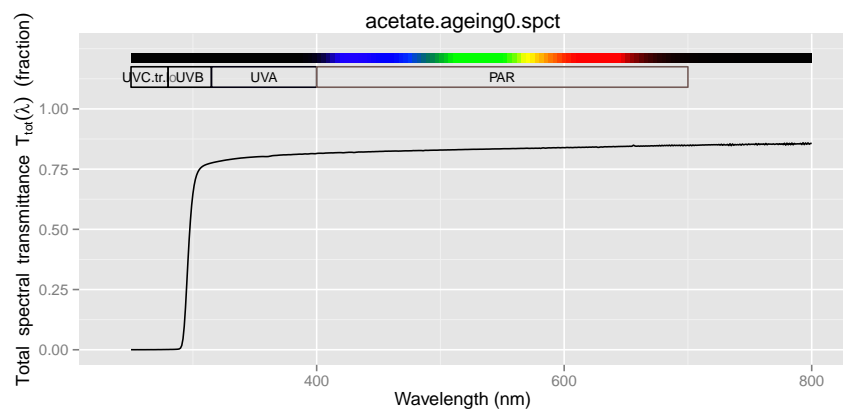


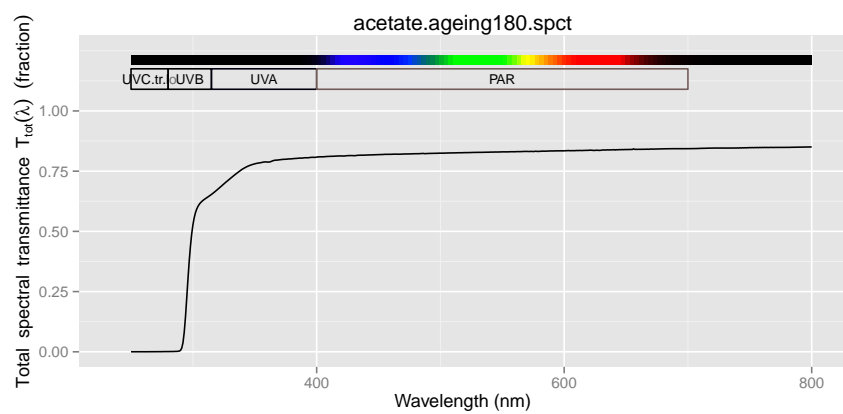
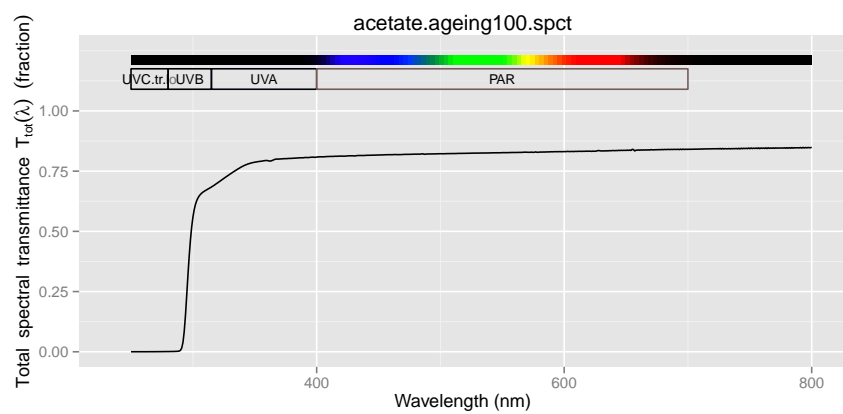
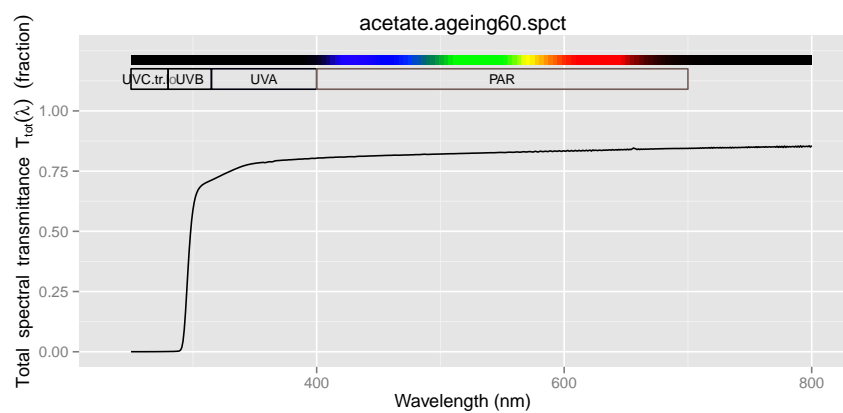


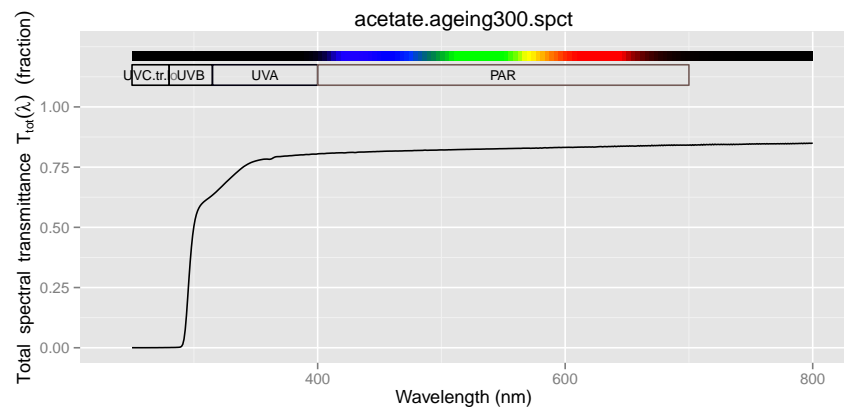
```

plot(acetate.ageing0.spct)
plot(acetate.ageing20.spct)
plot(acetate.ageing30.spct)
plot(acetate.ageing60.spct)
plot(acetate.ageing100.spct)
plot(acetate.ageing180.spct)
plot(acetate.ageing300.spct)

```

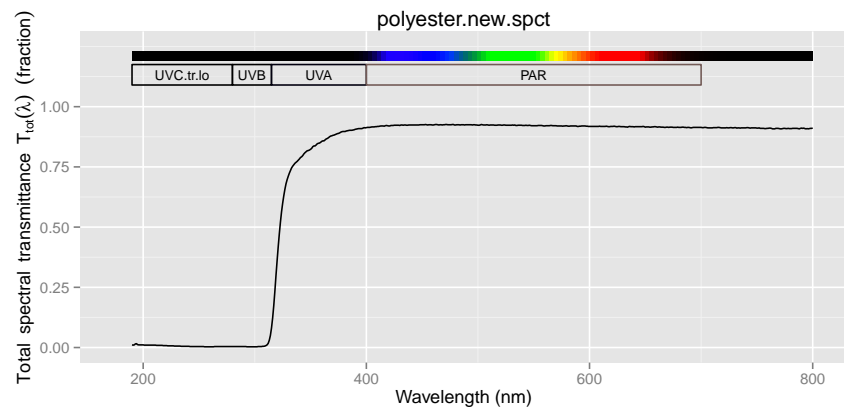






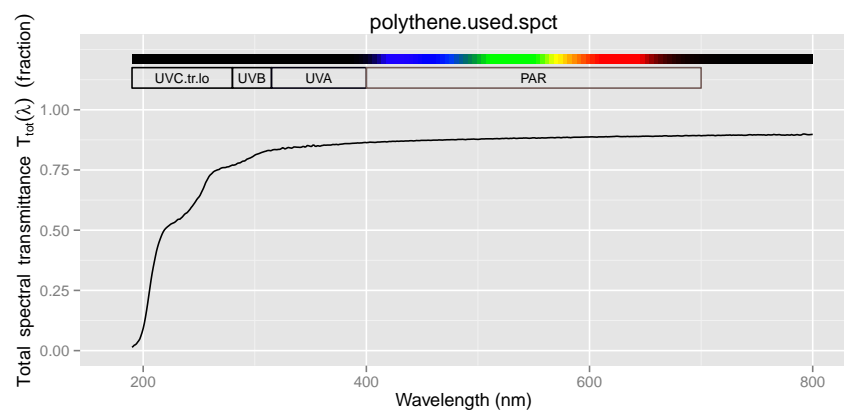
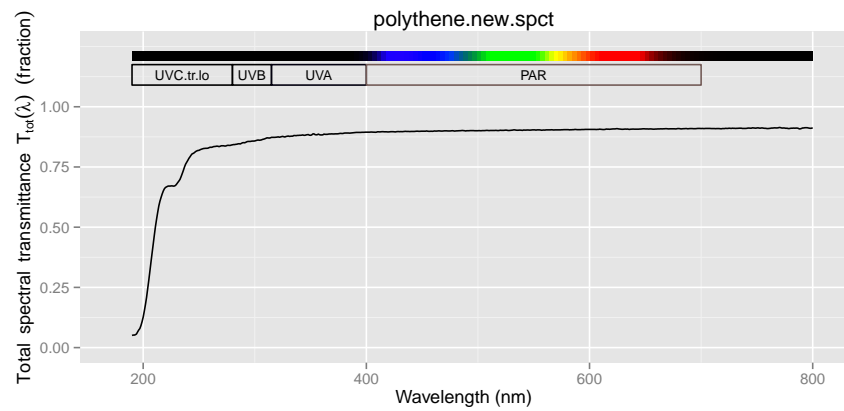
## 3.2 Polyester

```
plot(polyester.new.spct)
```



### 3.3 Polythene

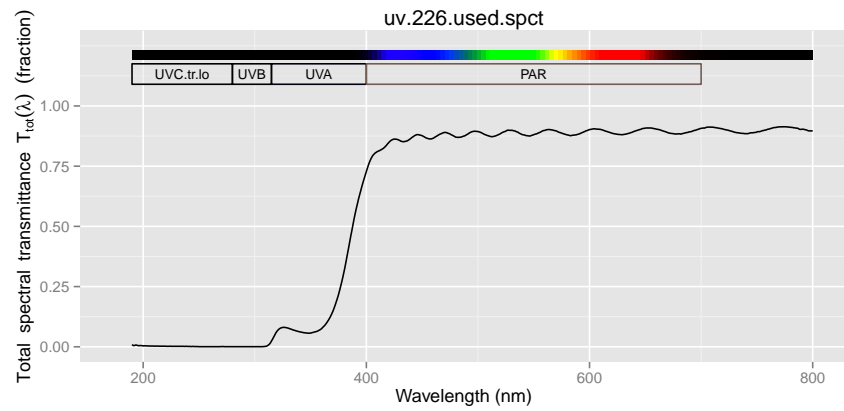
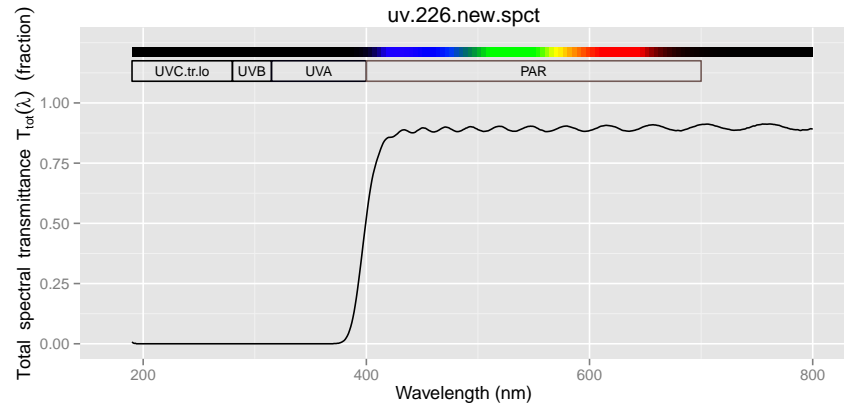
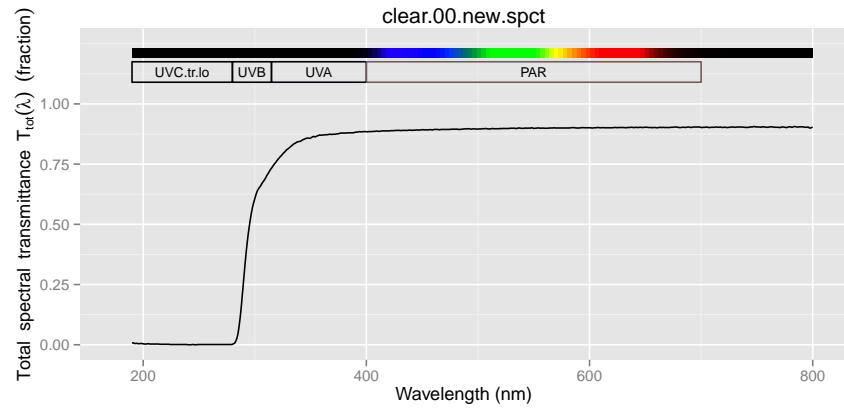
```
plot(polythene.new.spct)
plot(polythene.used.spct)
```

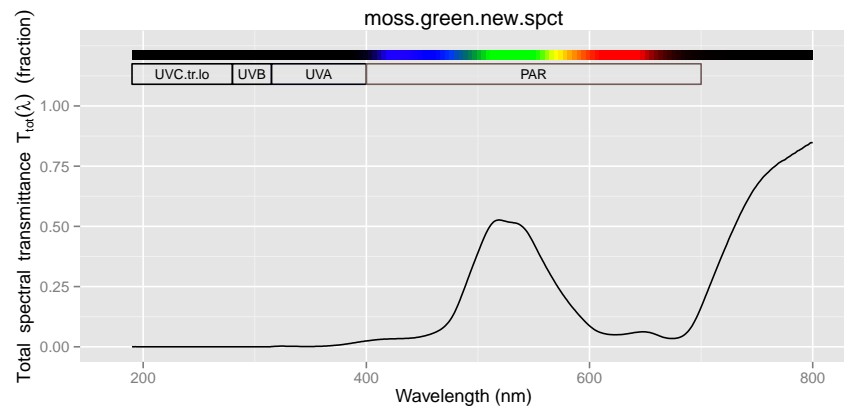
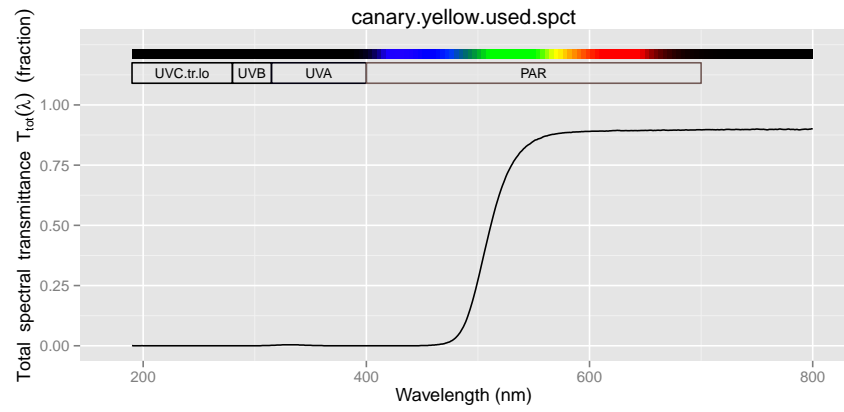
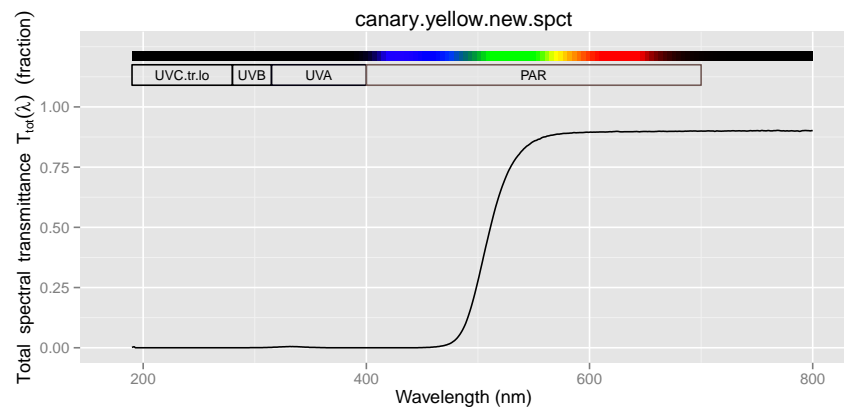


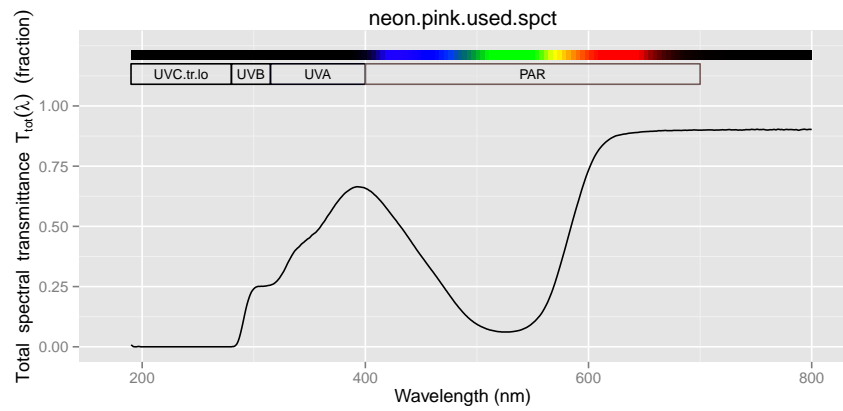
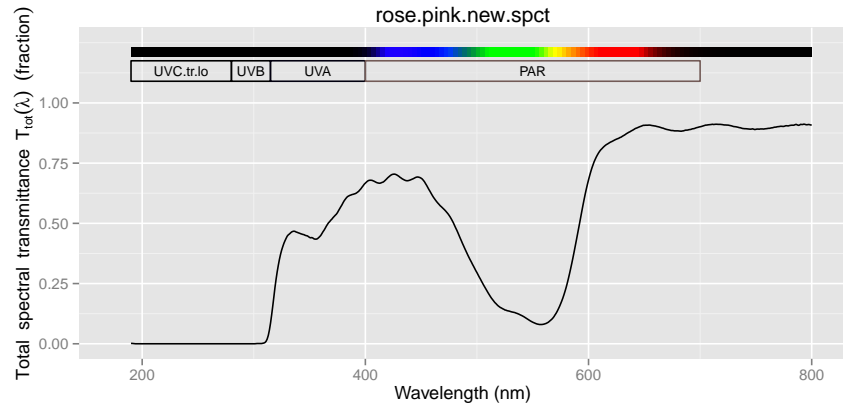
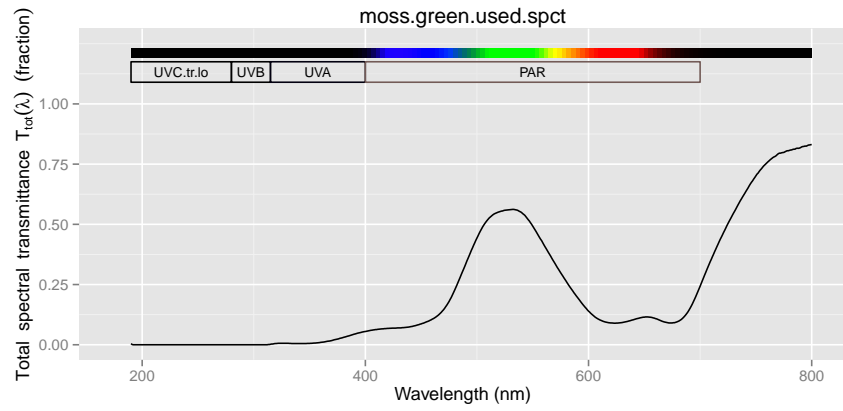
### 3.4 Rosco theatrical filters

```
plot(clear.00.new.spct)
plot(uv.226.new.spct)
plot(uv.226.used.spct)
plot(canary.yellow.new.spct)
plot(canary.yellow.used.spct)
plot(moss.green.new.spct)
plot(moss.green.used.spct)
plot(rose.pink.new.spct)
plot(neon.pink.used.spct)
```







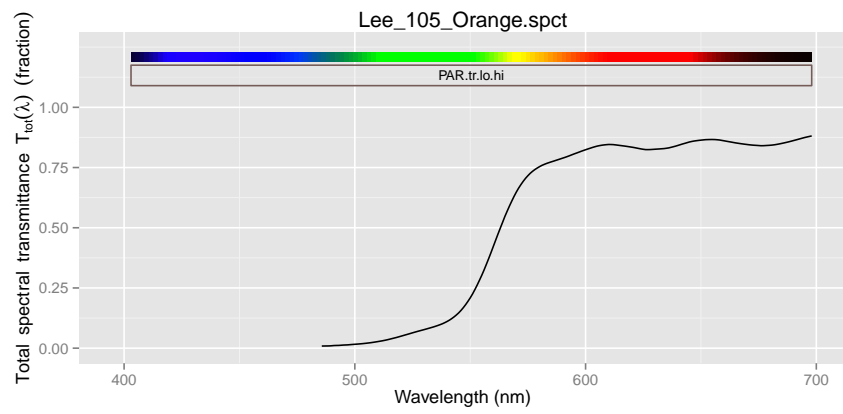
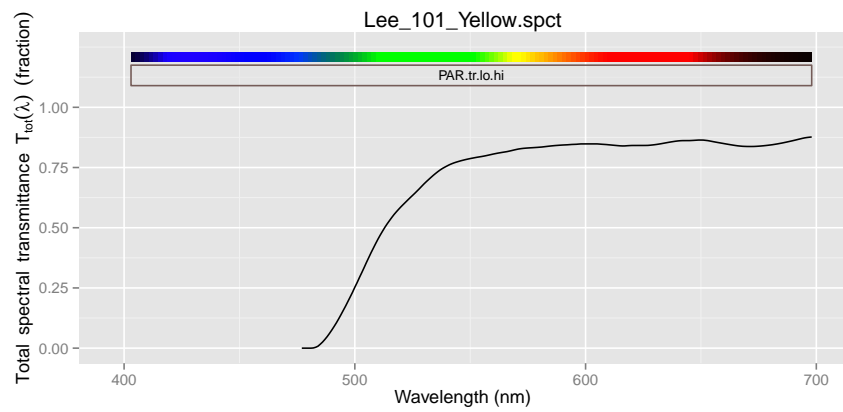


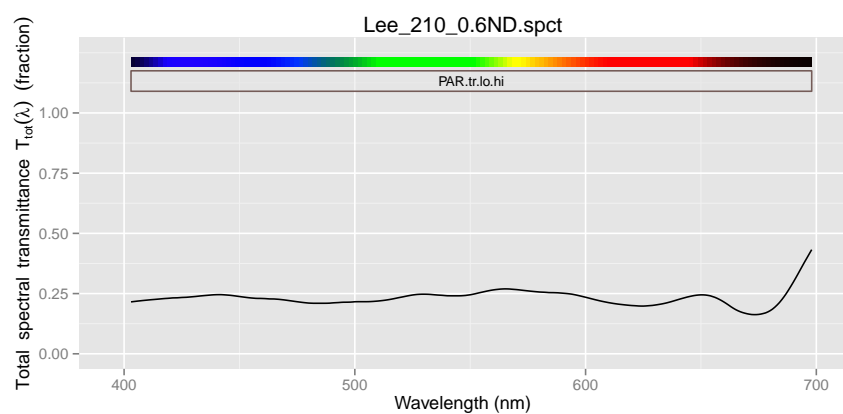
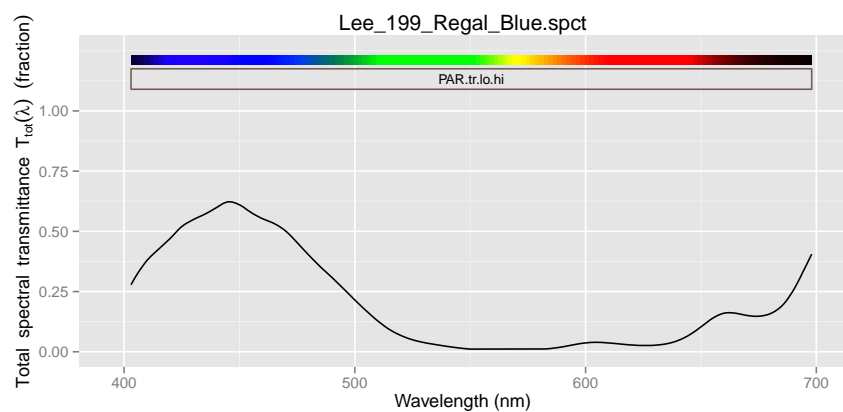
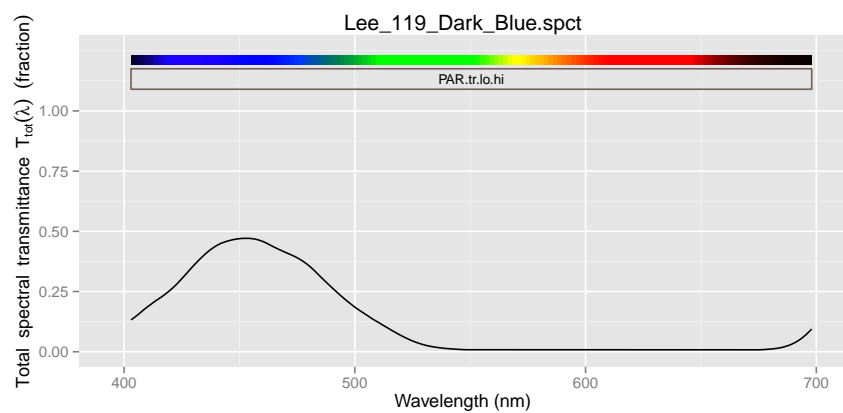
### 3.5 Lee theatrical filters

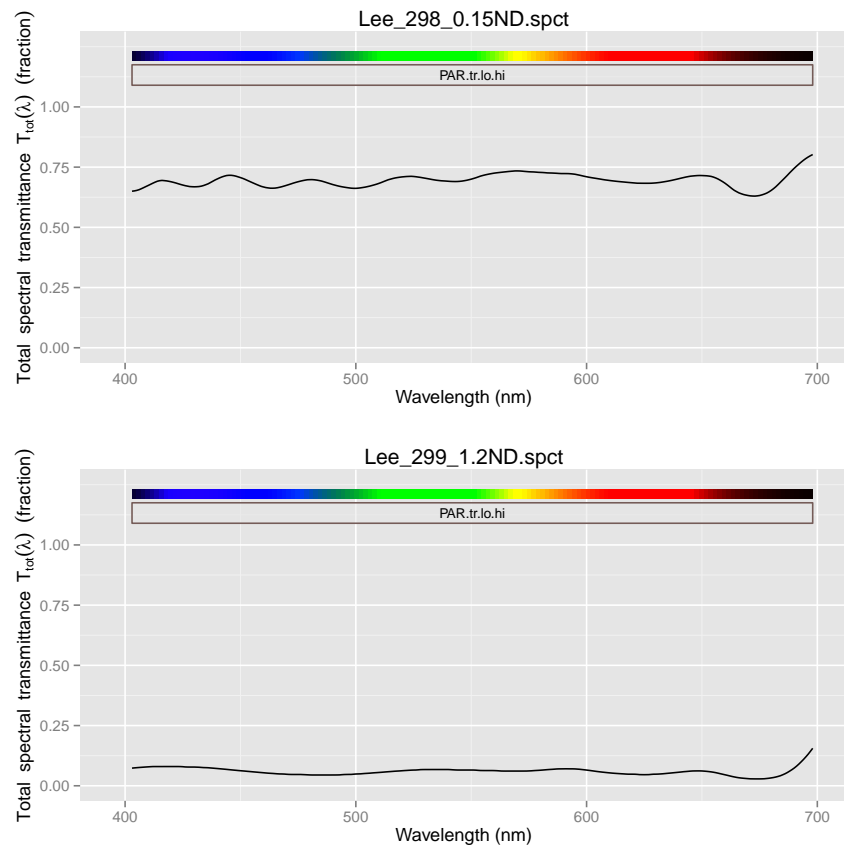
```

plot(Lee_101_Yellow.spct)
plot(Lee_105_Orange.spct)
plot(Lee_119_Dark_Blue.spct)
plot(Lee_199_Regal_Blue.spct)
plot(Lee_210_0.6ND.spct)
plot(Lee_298_0.15ND.spct)
plot(Lee_299_1.2ND.spct)

```

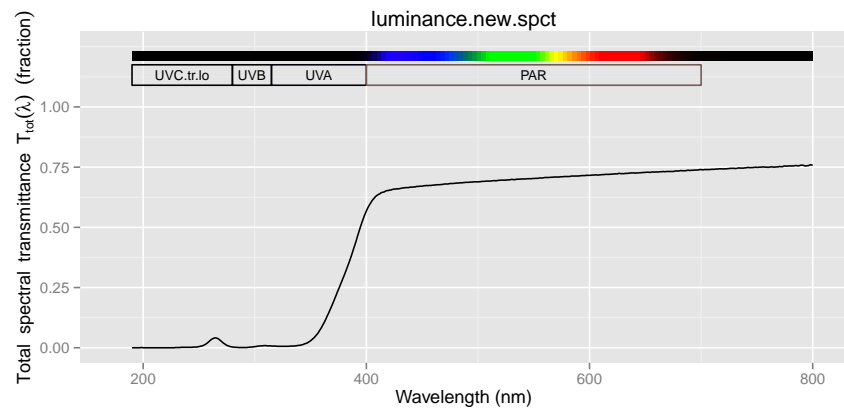
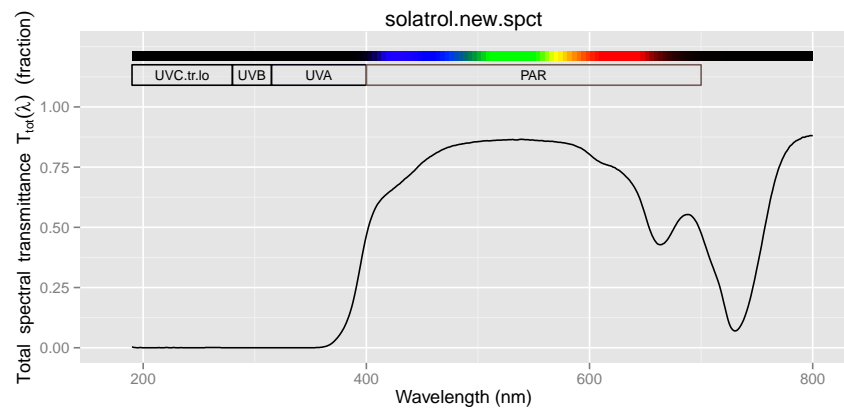






### 3.6 Commercial greenhouse films from BPI Agri Visqueen

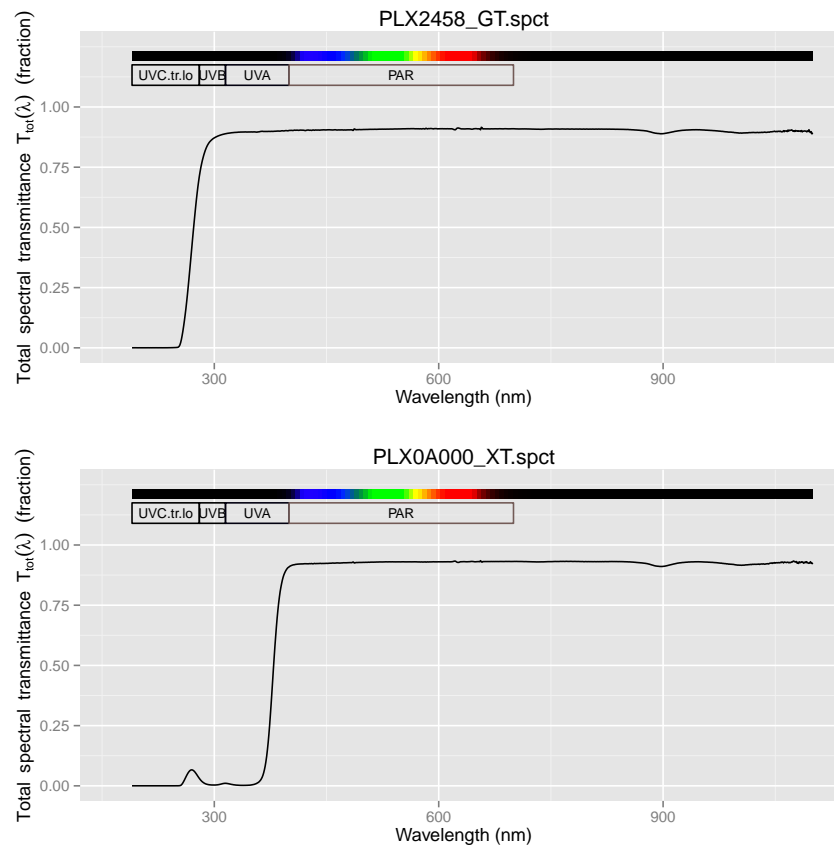
```
plot(solatrol.new.spct)
plot(luminance.new.spct)
```



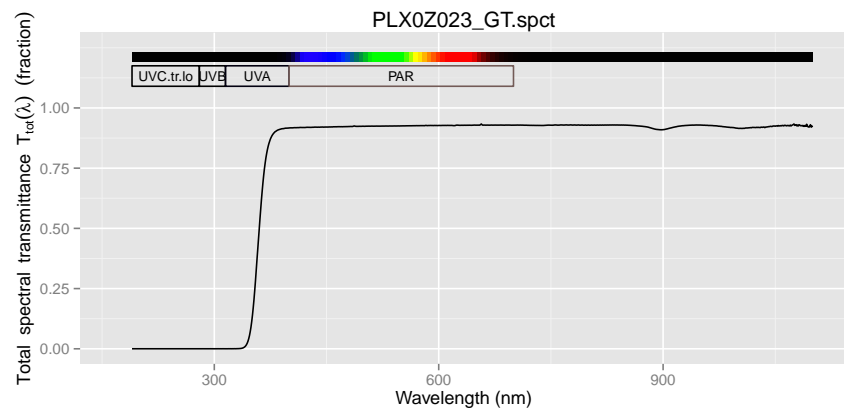
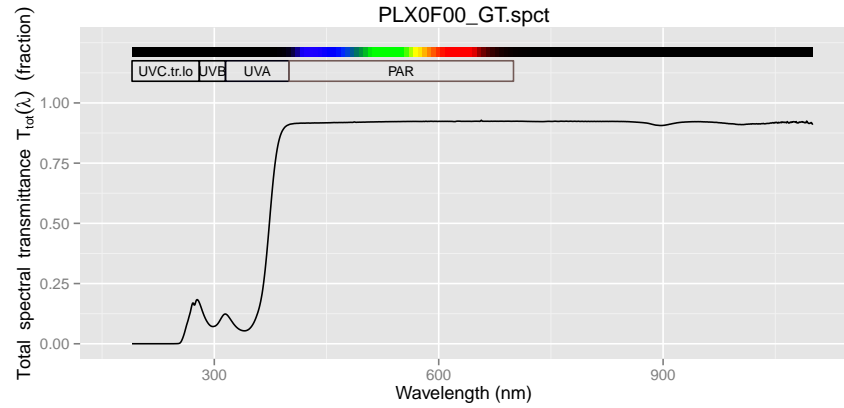
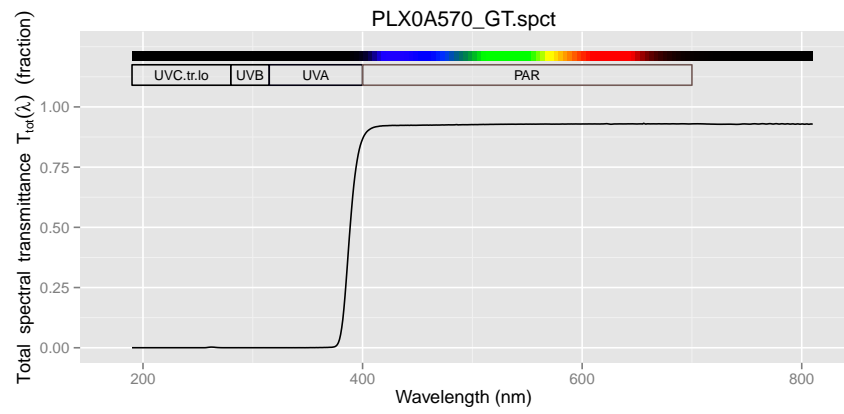
## 4 Plastic sheets

### 4.1 Plexiglas

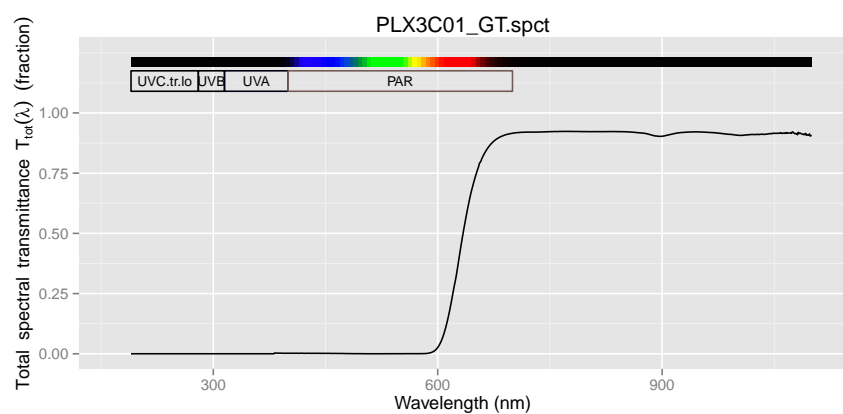
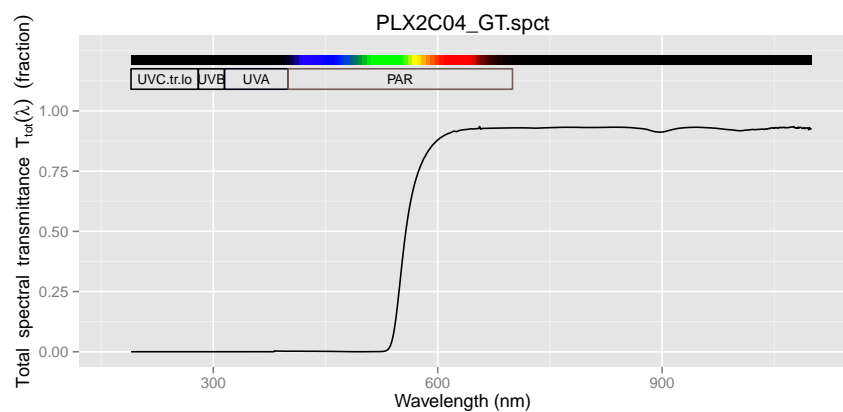
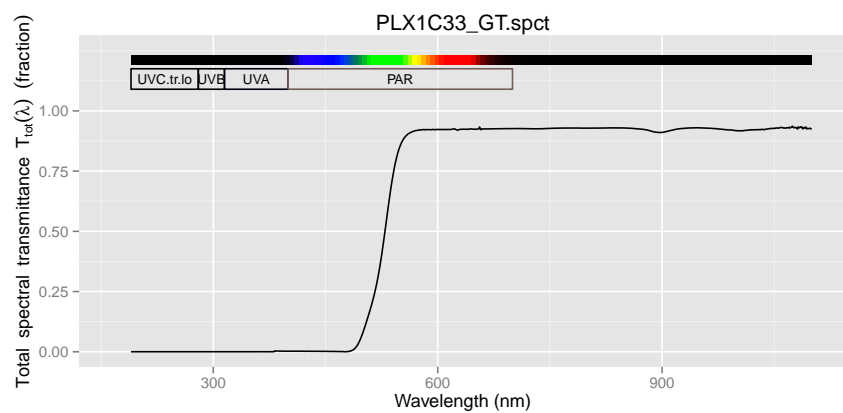
```
plot(PLX2458_GT.spct)
plot(PLX0A000_XT.spct)
plot(PLX0A570_GT.spct)
plot(PLX0F00_GT.spct)
plot(PLX0Z023_GT.spct)
```

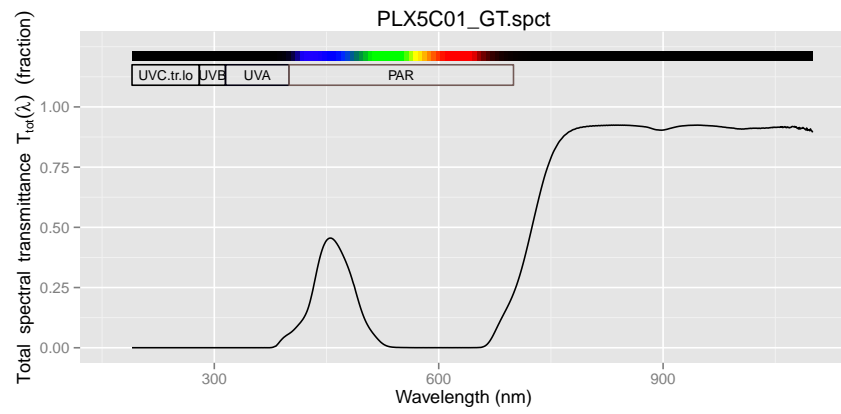






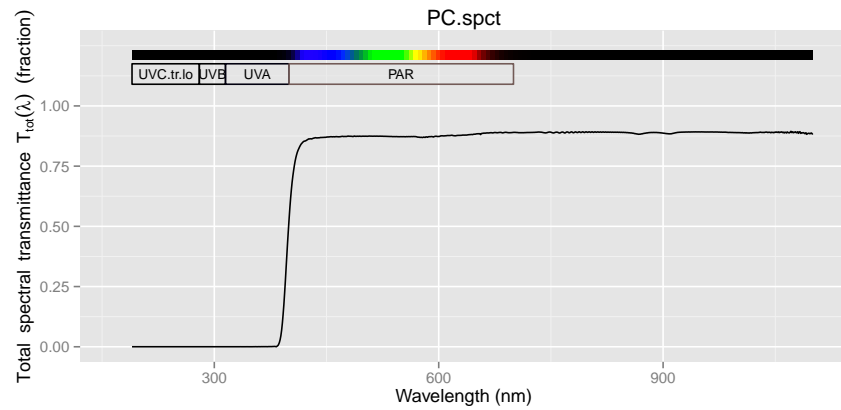
```
plot(PLX1C33_GT.spct)
plot(PLX2C04_GT.spct)
plot(PLX3C01_GT.spct)
plot(PLX5C01_GT.spct)
```

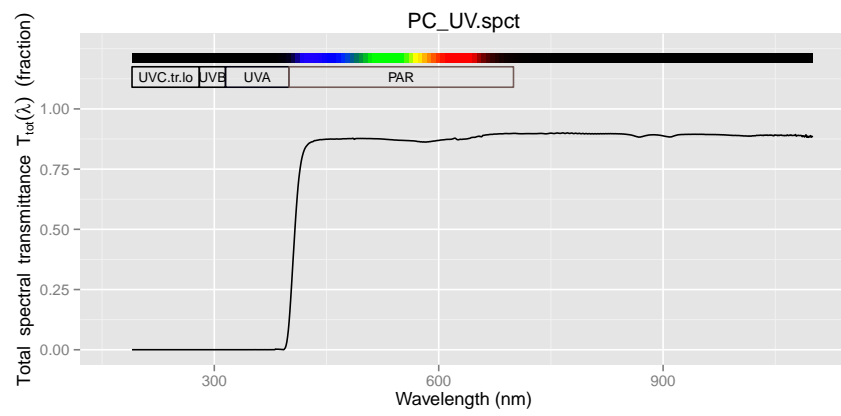




## 4.2 Polycarbonate

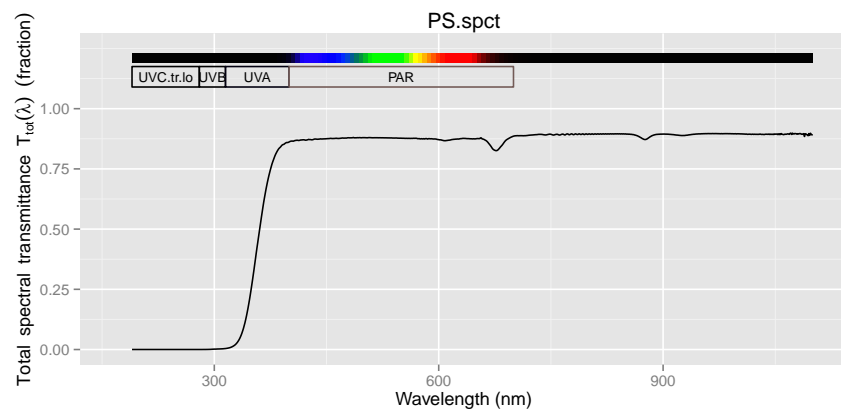
```
plot(PC.spct)
plot(PC_UV.spct)
```





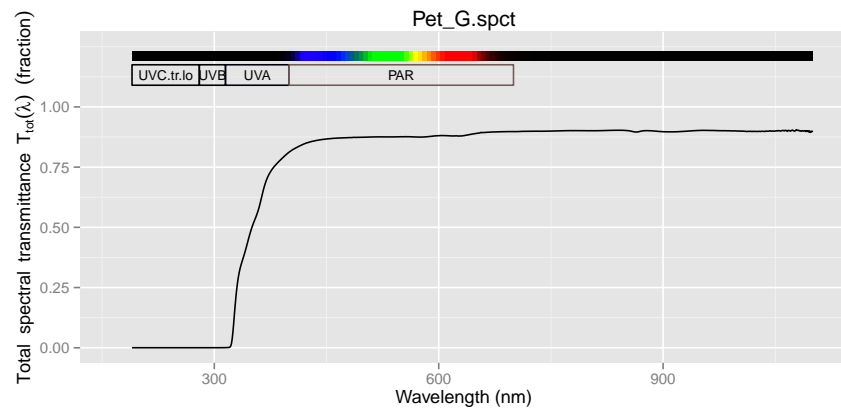
### 4.3 Polystyrene

```
plot(PS.spct)
```



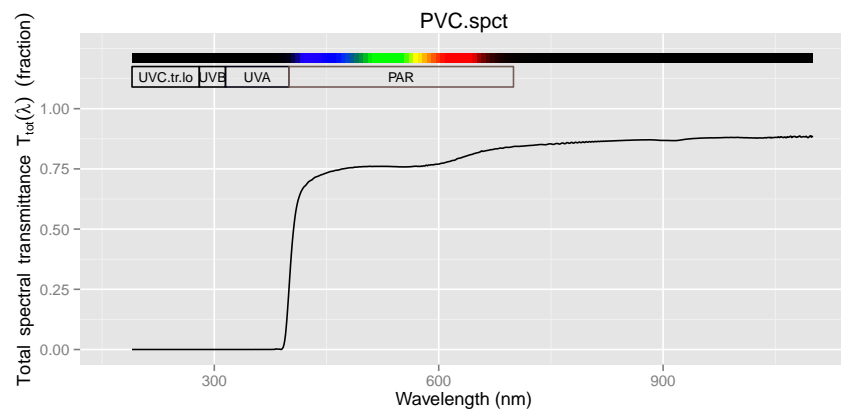
### 4.4 Polyester

```
plot(Pet_G.spct)
```



## 4.5 Polyvinylchloride

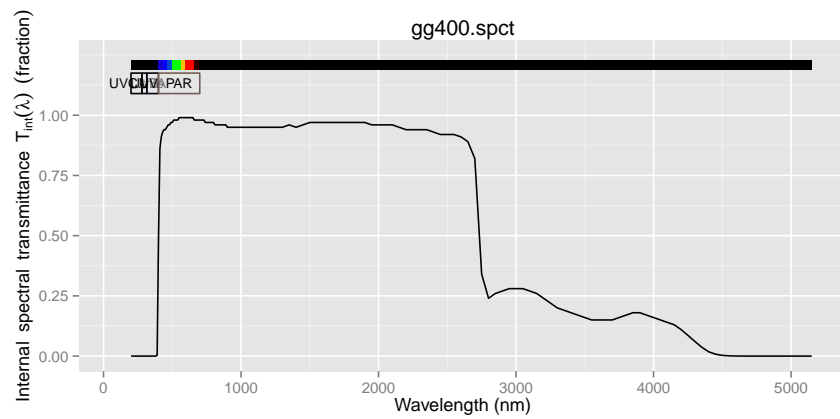
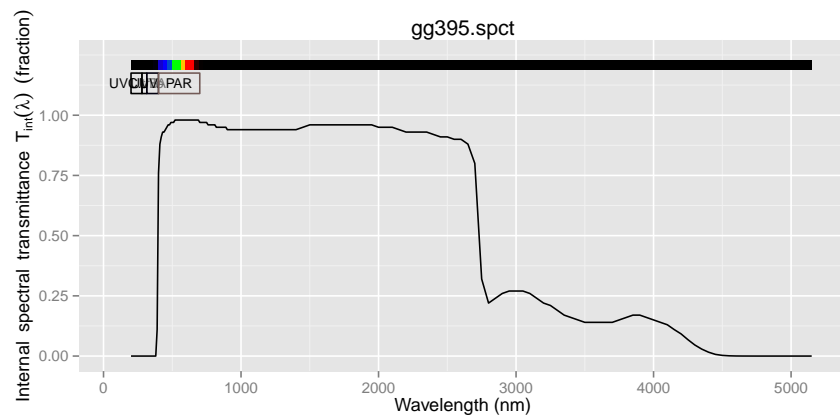
```
plot(PVC.spct)
```

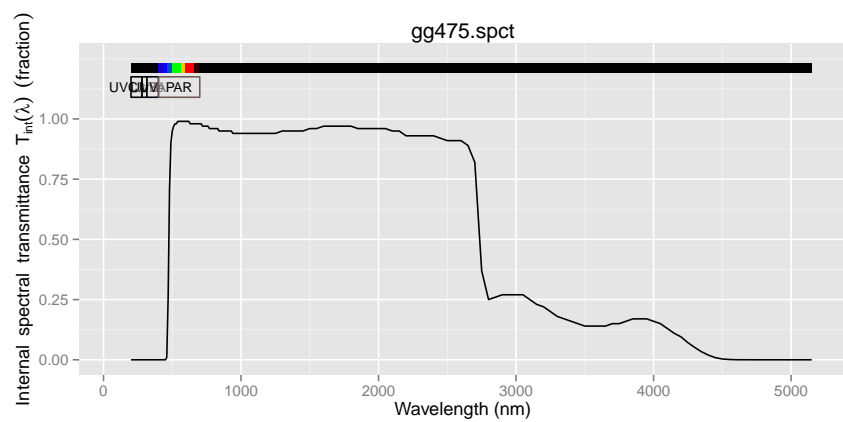
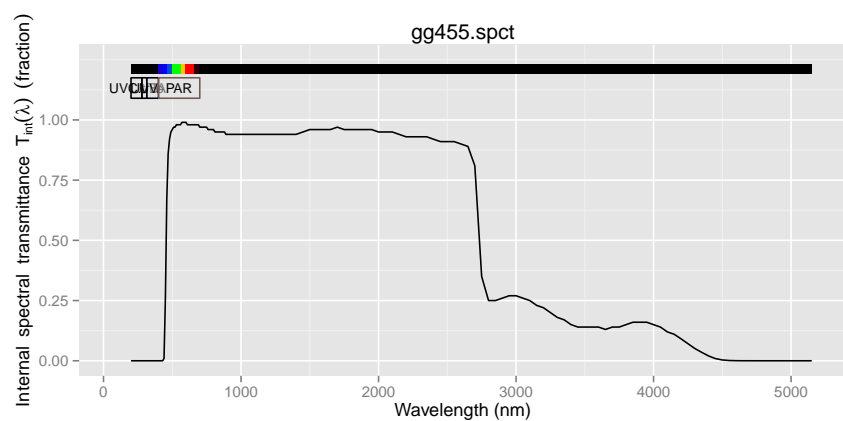
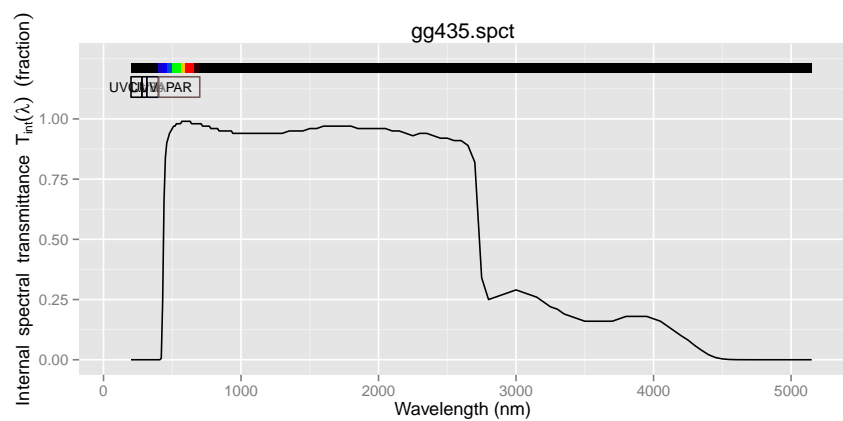


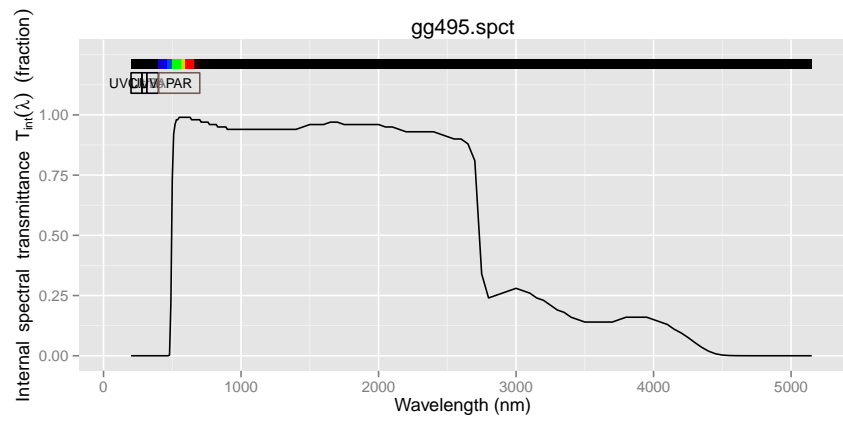
## 5 Optical glass filters

### 5.1 Schott long-pass filters

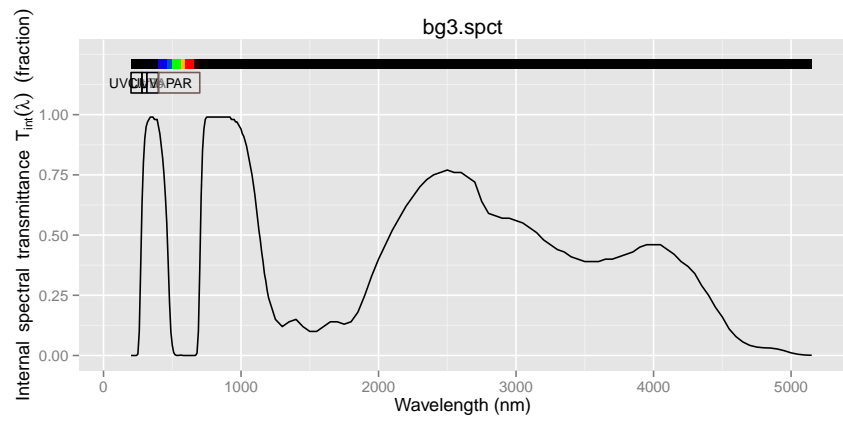
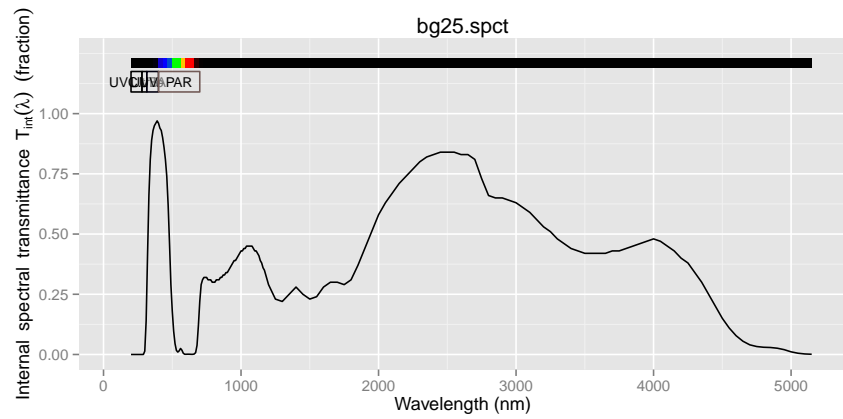
```
plot(gg395.spct)
plot(gg400.spct)
plot(gg435.spct)
plot(gg455.spct)
plot(gg475.spct)
plot(gg495.spct)
```







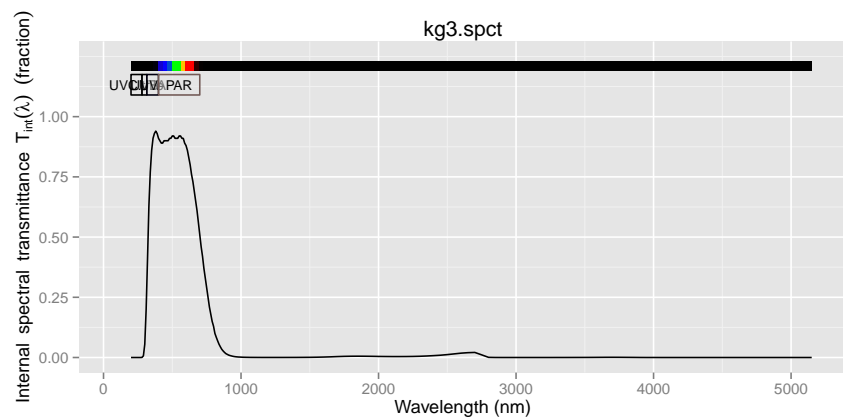
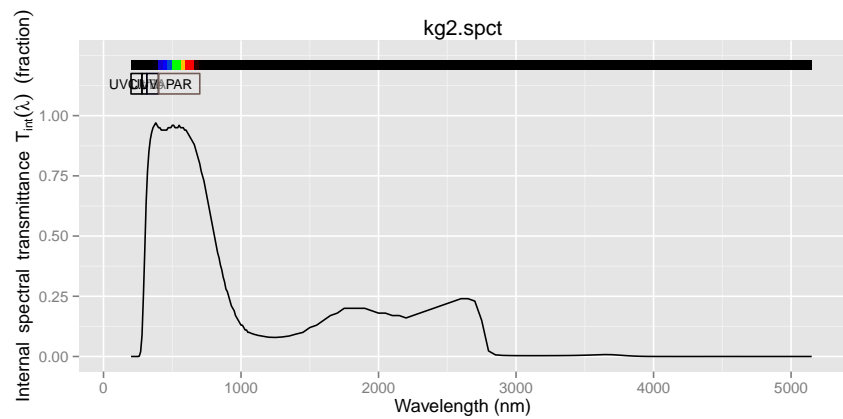
```
plot(bg25.spct)
plot(bg3.spct)
plot(bg7.spct)
```

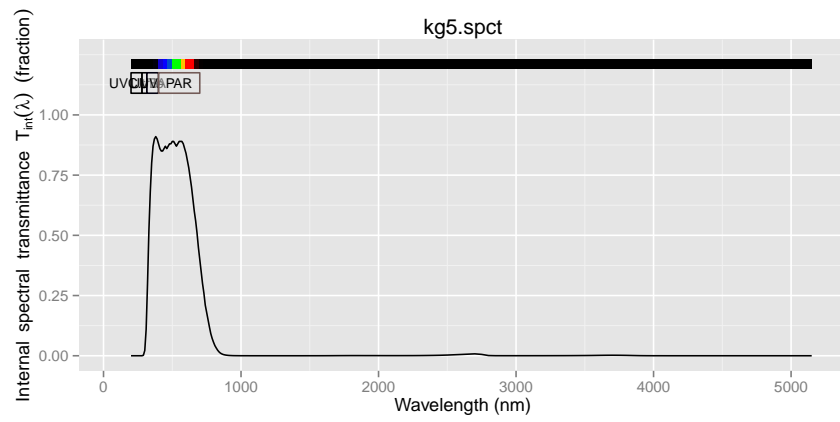




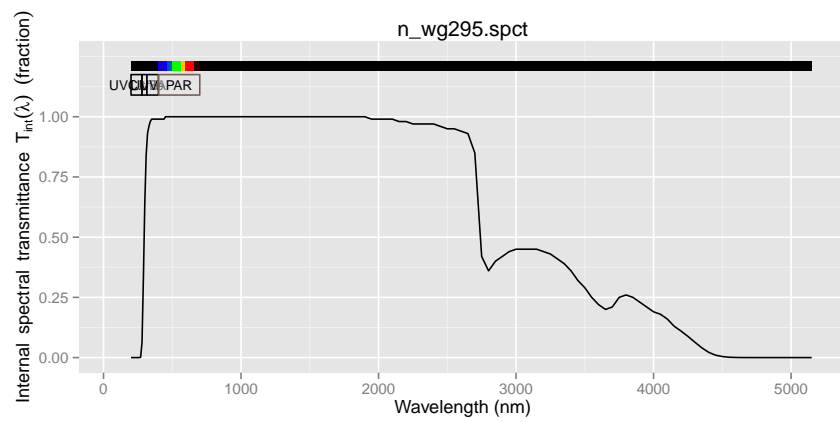
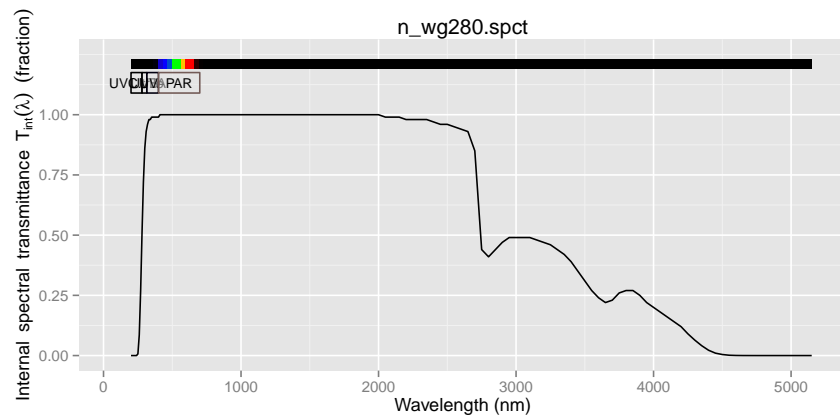


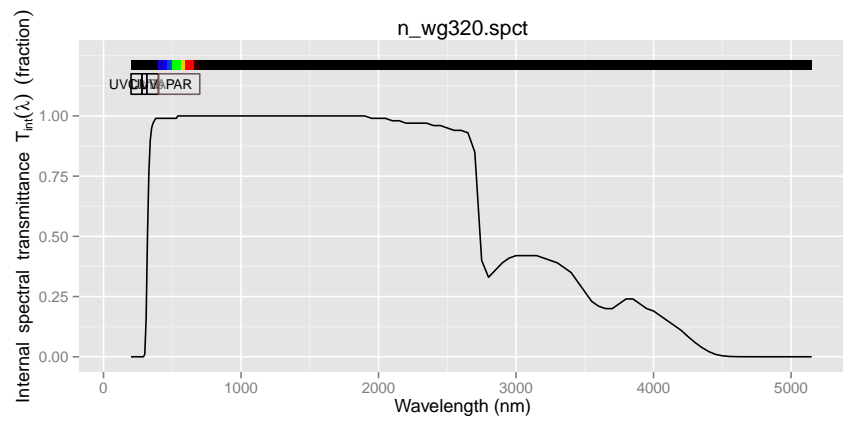
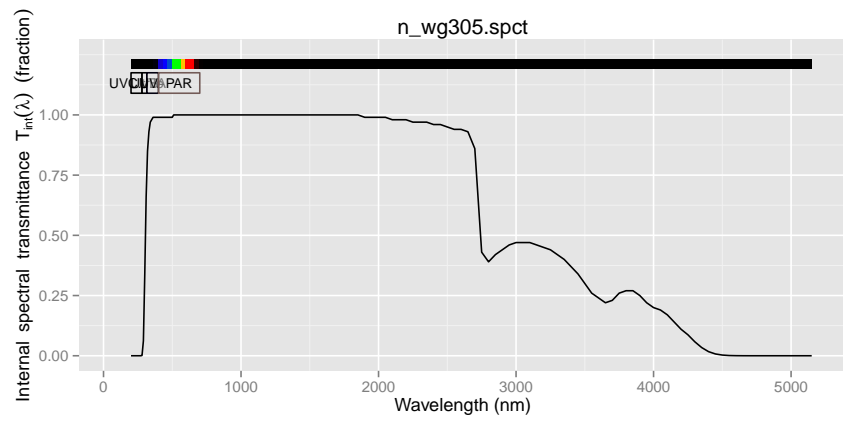
```
plot(kg2.spct)
plot(kg3.spct)
plot(kg5.spct)
```



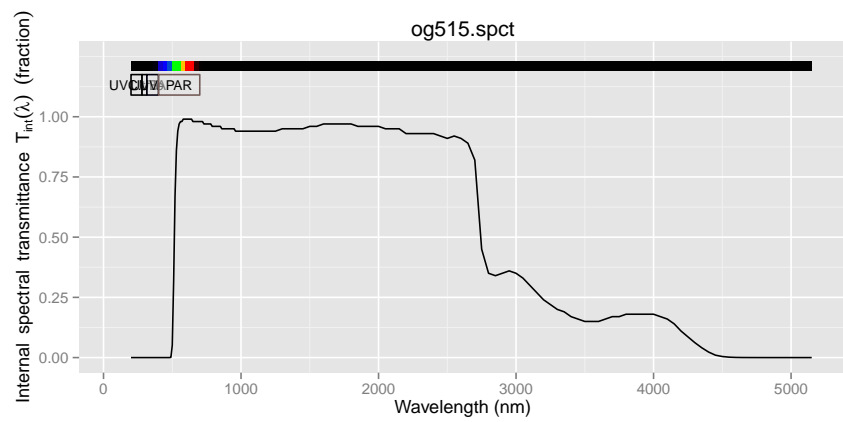


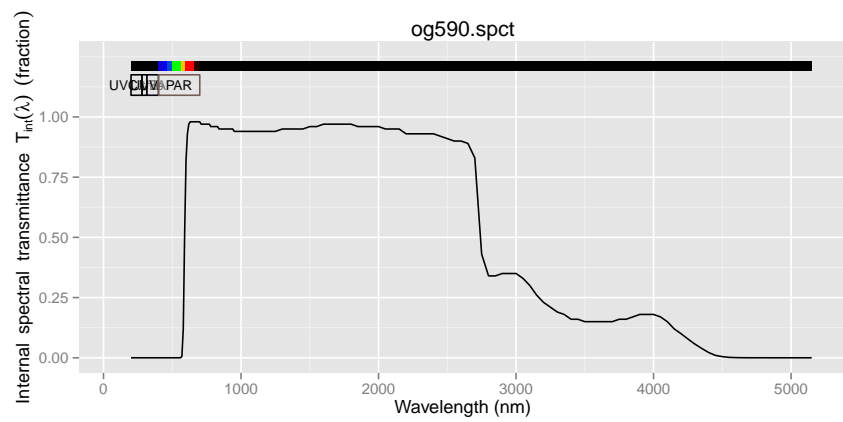
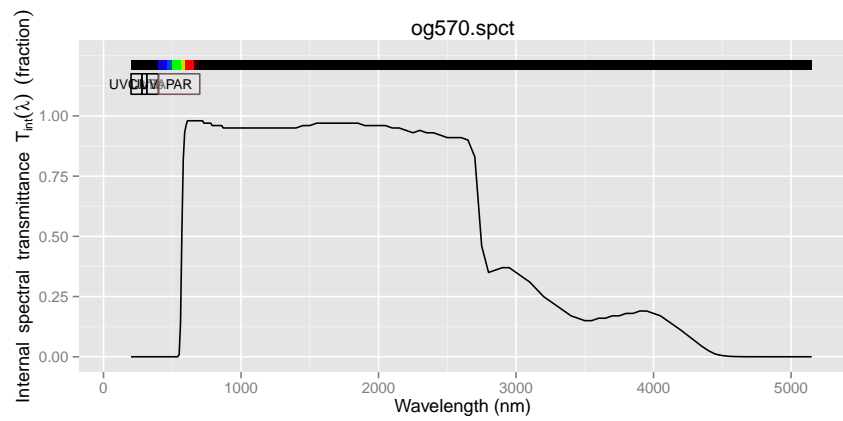
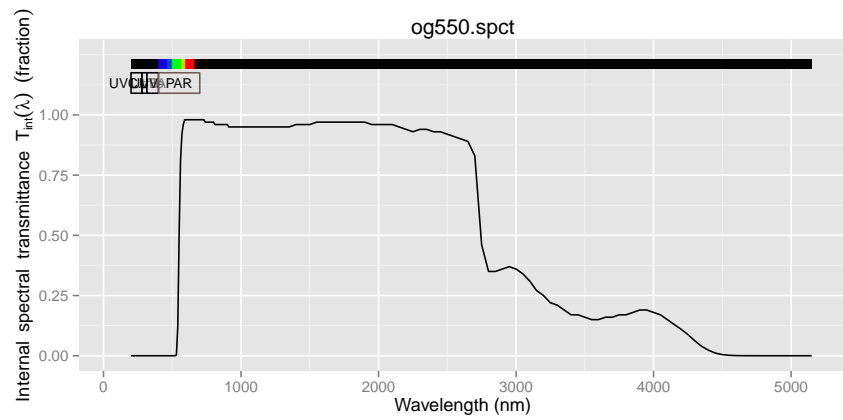
```
plot(n_wg280.spct)
plot(n_wg295.spct)
plot(n_wg305.spct)
plot(n_wg320.spct)
```





```
plot(og515.spct)
plot(og550.spct)
plot(og570.spct)
plot(og590.spct)
```



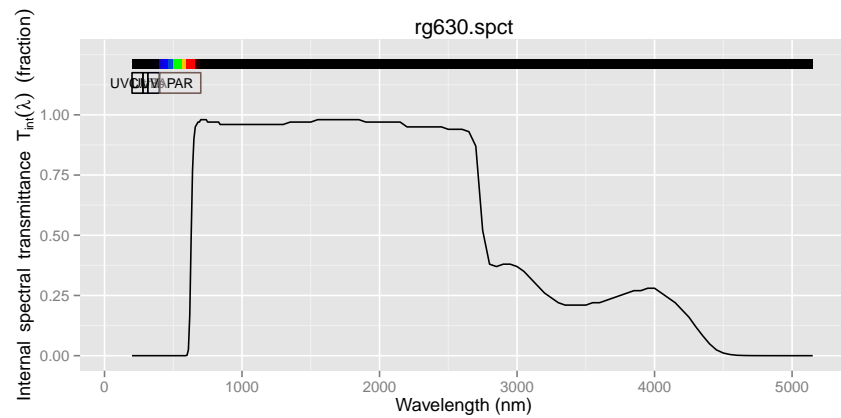
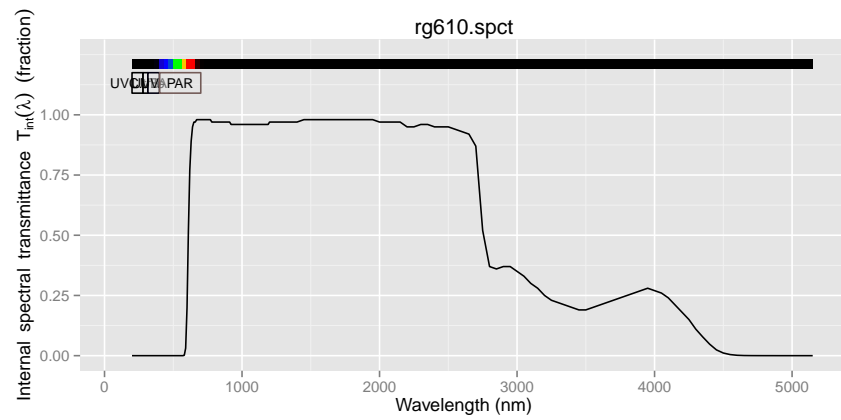


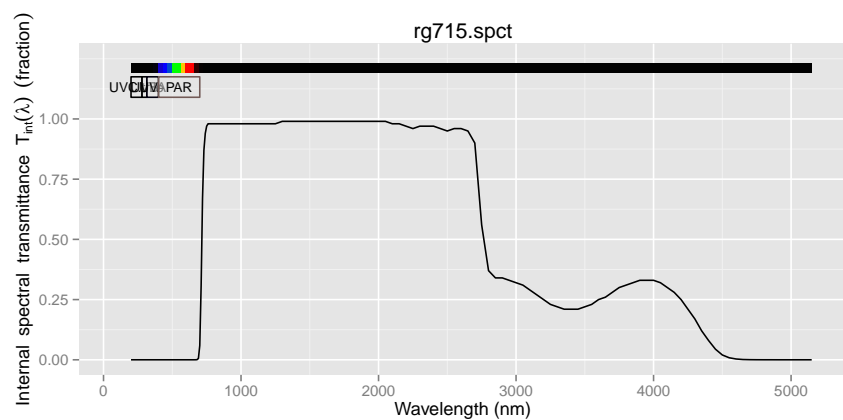
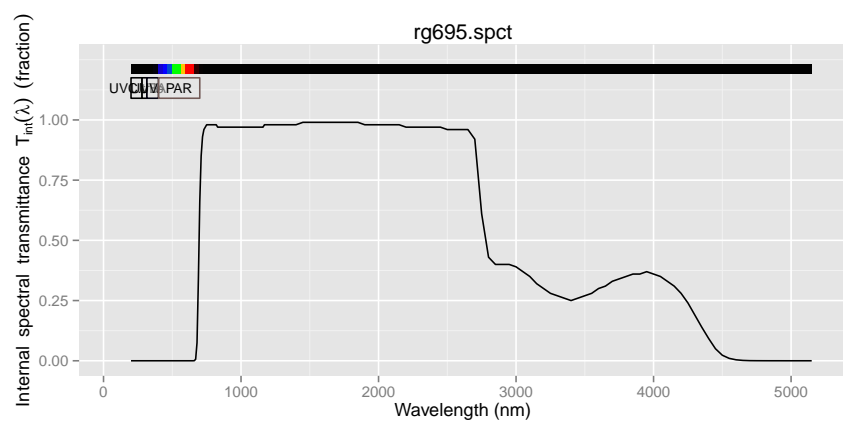
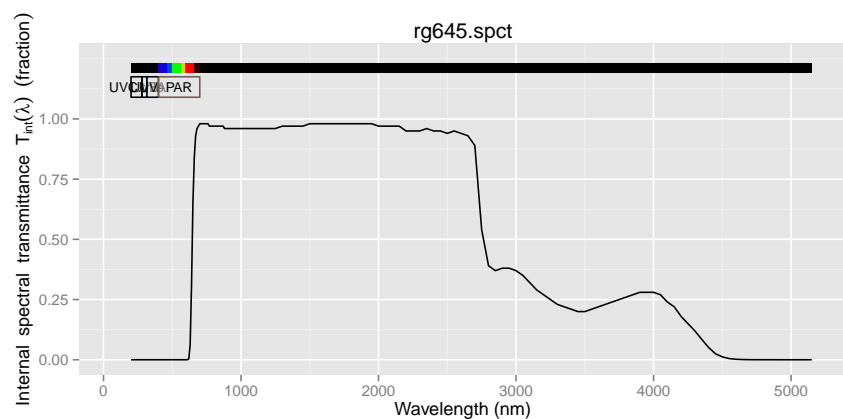
```
plot(rg610.spct)
plot(rg630.spct)
plot(rg645.spct)
plot(rg695.spct)
```

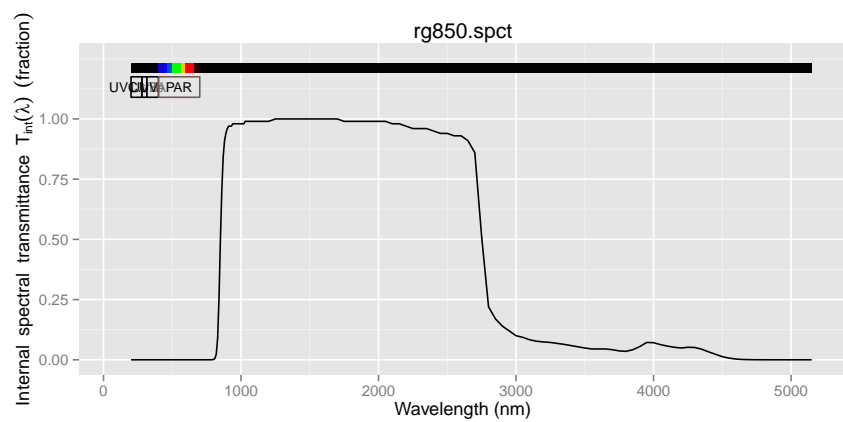
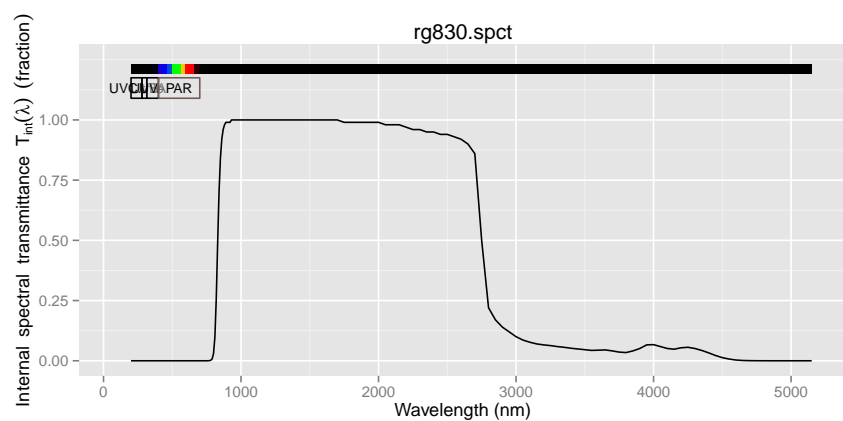
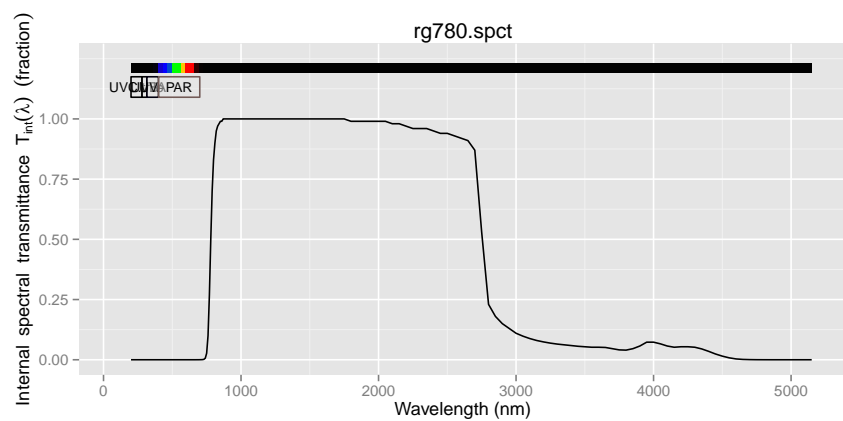
```

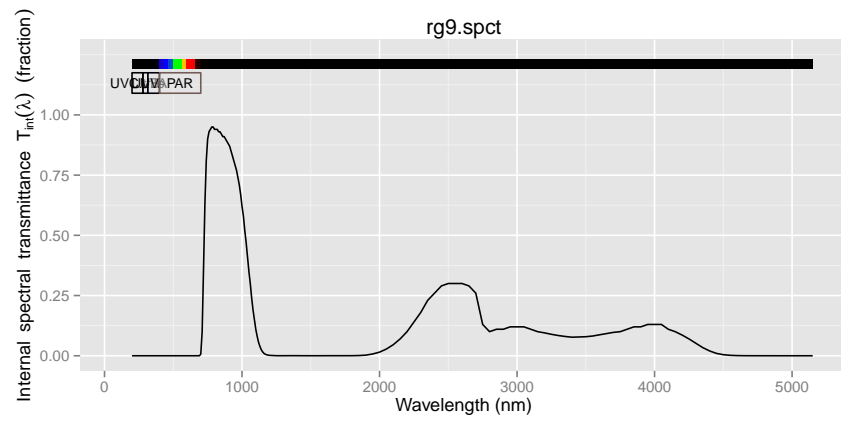
plot(rg715.spct)
plot(rg780.spct)
plot(rg830.spct)
plot(rg850.spct)
plot(rg9.spct)

```



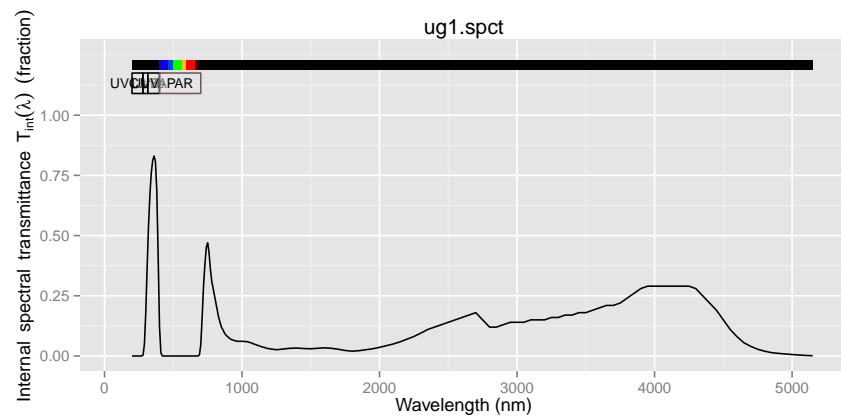




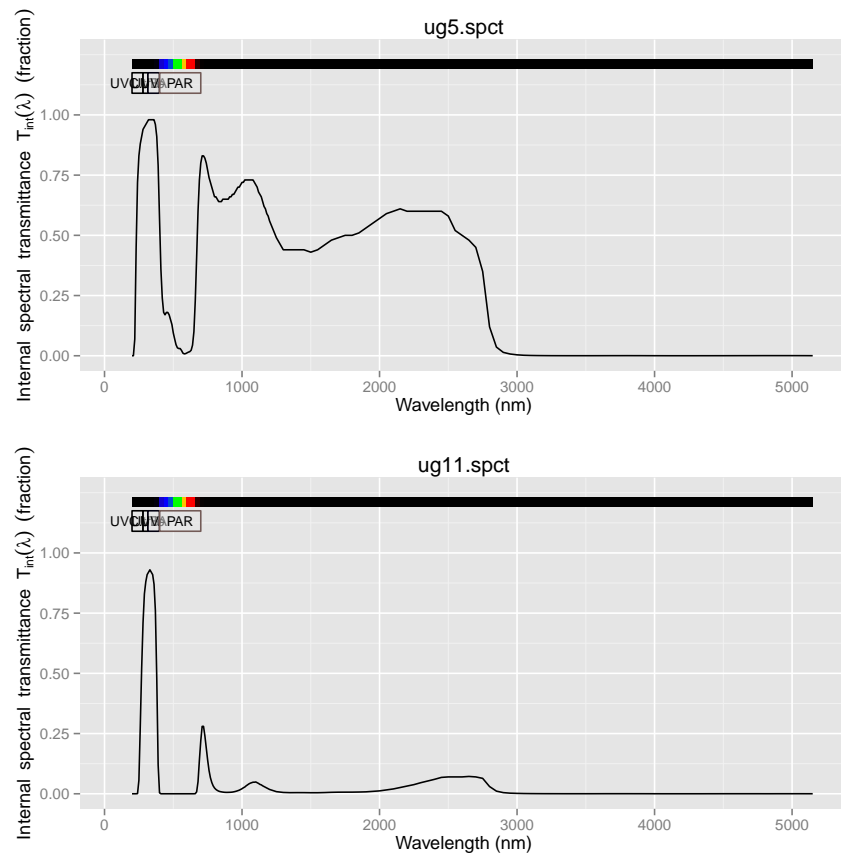


## 5.2 Schott band-pass filters

```
plot(ug1.spct)
plot(ug5.spct)
plot(ug11.spct)
```







## 6 Petri dishes

```
plot(Petri_dish_PS_101.spct)
plot(Petri_dish_PS_109.spct)
plot(Petri_dish_glass.spct)
```

