

# Neon Colors: Achievability on PET and PTT fibers

We have previously discussed the [limitations of color achievability](#) and colorfastness of neon colors on cotton.

However, an excellent neon gamut can be achieved on both woven and spun polyester and stretch PTT fiber such as Sorona®, using Dianix® Luminous dyes in conjunction with selected bright Dianix® dyes. Through this method, fluorescent yellows, pinks, oranges, lime greens can be attained, supplemented by bright turquoise, royal blue, and violet shades.

Here are some characteristics:

- Colorfastness to light (AATCC 16) averages 4-5 ( 10AFU ) and 4 ( 20AFU ) which are excellent for apparel or articles exposed to the outdoors.
- Wet fastness is also excellent; averaging change of shade 4 and stain of adjacent fibers 4 tested to AATCC 61-2A at 49 Degrees Celsius.
- In the case whereby chlorinated water fastness is required, the fastness to 20 ppm active chlorine ISO 105 E03 averages grade 4.

The spun polyester and stretch PTT fibers provide a soft handle in a knitted construction, and if a proportion of cotton is required, then a blend with up to 20% cotton can provide a near solid effect using the selected Dianix® Luminous dyes.

To assist designers in identifying the required shades, Color Solutions International has developed “*Active Brights*”, which is a palette of neon colors for polyester.