



1. Color control of preforms made of recyclate

Preforms made of recycled material should be color controlled. For this purpose, a color sensor type **SPECTRO-3-FIO-MSM-ANA-DL** in connection with an optical fiber type **R-S-A3.0-(3.0)-1200-67°** and an optical frontend type **KL-M34-XL-A3.0** is used. At this, the distance from the optical frontend to the object is approximately 150mm and the spot size at this distance is around 8mm in diameter. The color of the preforms can be proper controlled as shown in the screen shots.

