



1. Color measurement of recycled plastic pellets

The color of recycled plastic pellets should be measured. It has to be taken into account, that the position of the pellets behind the inspection glass can vary, thus a big light spot has a certain advantage to get a proper average measurement value. Furthermore, it should be considered, that the ambient temperature around the inspection glass can reach 120°C. For this purpose a color measurement sensor type **SPECTRO-3-FIO-MSM-ANA-VIS** in connection with an optical frontend type **KL-D-0°/45°-85-1200-D-A3.0-VIS** will be used. Here, the distance of the optical frontend to the inspection glass is approximately 85mm and the white light spot size is around 30mm x 20mm due to the angle of impact of 45°. The color of the plastic pellets can be proper measured as shown in the screen shots.

