Polymer materials, testing of weathering resistance

Plastics are often used out- or indoors exposed to daylight or to daylight behind glass for long periods. The effects of daylight, heat, moisture and other climatic stresses may have influence on the aesthetic and mechanical properties of plastics and for that reason the resistance to this effects is investigated.

Kiwa Expert Centre Polymers is involved in testing the weathering resistance of polymer materials and products. Using the products in the applications they are designed for and measuring the influence of these effects is most of the time not practical. In most cases it takes a too long time. Alternatively, test methods are used were test piece are exposed to laboratory light sources and the combined effect of ultra violet radiation, moisture and heat to the material properties is measured as a function of the exposure time.

The Kiwa Expert Centre Polymers has several testing equipment to evaluate the artificial weathering of polymer materials according to international standards.

Manufacturers and users of polymer material products for outdoor applications.

Independent evaluation of the suitability of polymer materials for outdoor applications.