

## **Color Fastness**

Color fastness is a material's resistance to color fading when exposed to real-life conditions that it is likely to face during its expected service life. This is done by testing the material against specific conditions, such as accelerated weathering. Once the accelerated weathering test programme has been completed, physical and mechanical assessments are carried out to determine any effects of the testing. This is carried out using gray scale testing, under a light.

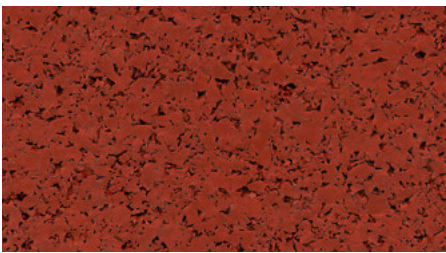
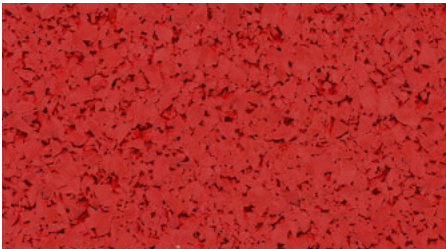
## **Gray Scale Testing**

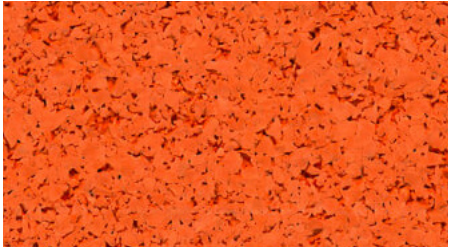
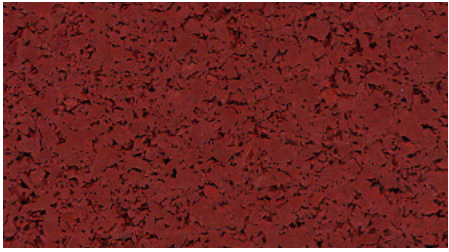
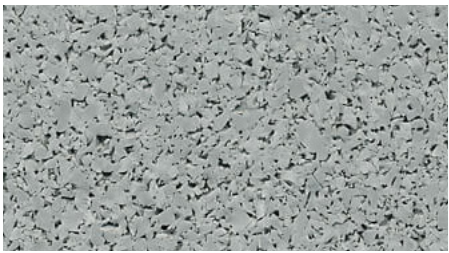
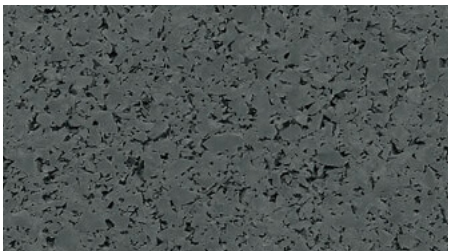
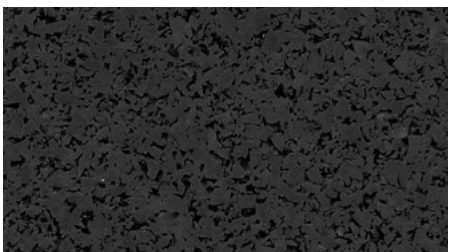
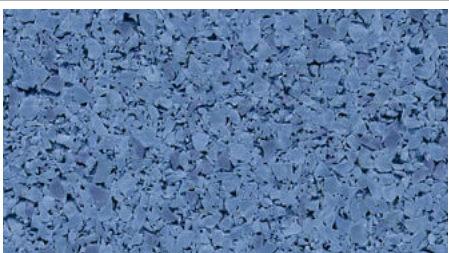
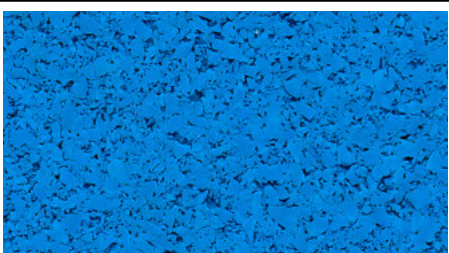
Gray Scale testing is the evaluation of differences in colour shading of a material's appearance. Gray scale is used in the assessment of change in colour, as described in EN14977:2013.

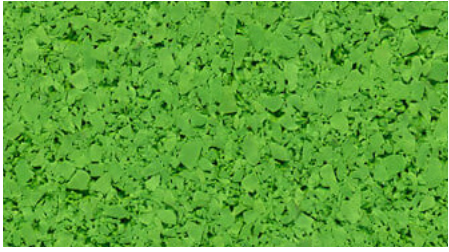

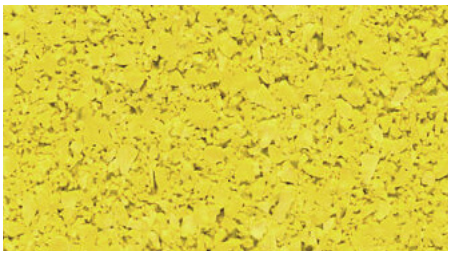
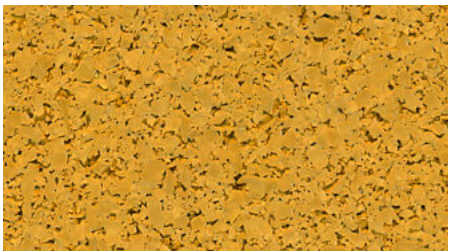

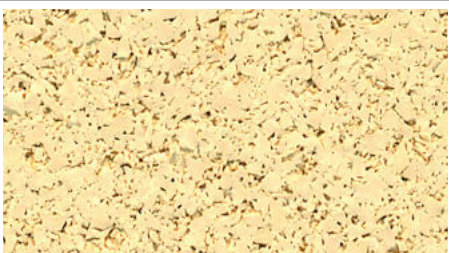

A tool, known as a gray scale, is used to visually assess and compare the loss of color of a specimen by identifying a half-step rating of 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2, and 1. A color fastness cabinet is used to help identify the severity of the surface changes of the exposed sample material. The exposed test specimen is placed alongside an untreated, control specimen of the same product. The difference in color between the two specimens is measured against the sections on a gray scale and a corresponding grade is given. A gray scale ranges from 5 being no colour change at all to 1 being the lightest and biggest change in colour.

The specimens are only given a rating, because this is a method to help determine how well the material will perform within its intended service life. A pass or fail criteria is usually specified by specific industry standards, or by the material suppliers.

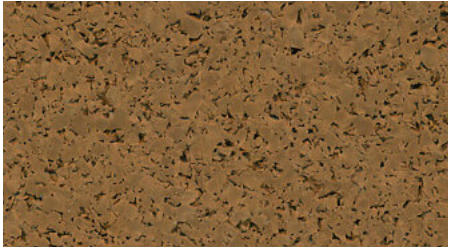
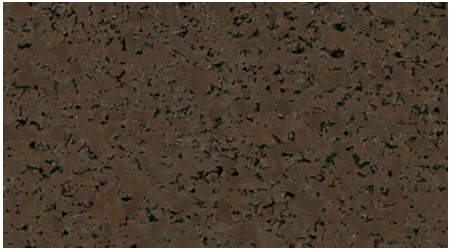
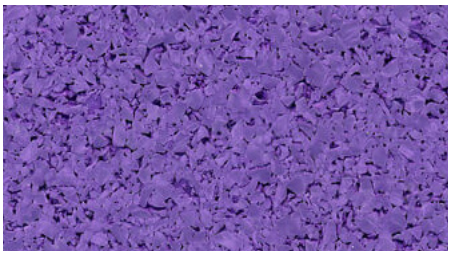
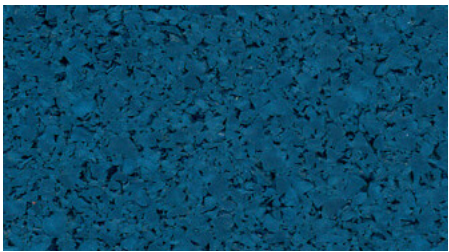
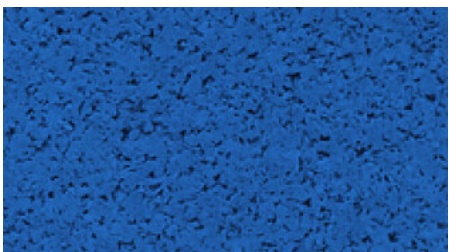
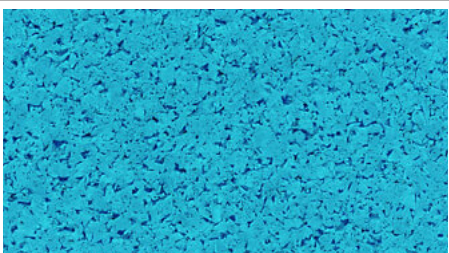
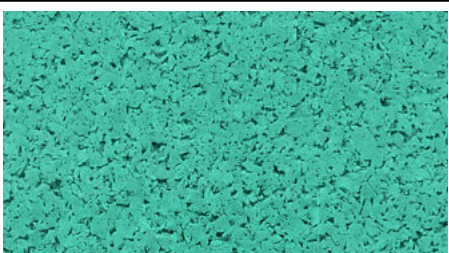
## **Neoflex EPDM Gray Scale Results**

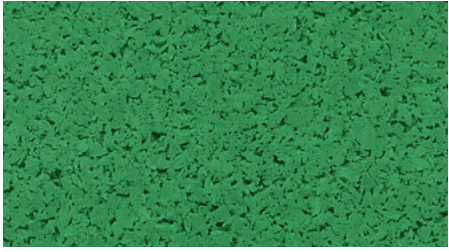

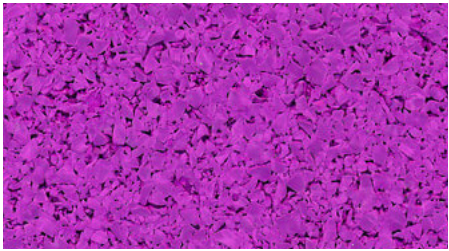

<b>Color Swatch</b>	<b>Color Code</b>	<b>Gray Scale</b>
	Color 801	4
	Color 802	4

<b>Color Swatch</b>	<b>Color Code</b>	<b>Gray Scale</b>
	Color 803	3
	Color 804	3-4
	Color 805	4-5
	Color 806	4
	Color 807	4-5
	Color 808	4
	Color 809	4

<b>Color Swatch</b>	<b>Color Code</b>	<b>Gray Scale</b>
	Color 810	4
	Color 811	4
	Color 812	4
	Color 813	4
	Color 814	4
	Color 815	4-5
	Color 816	4



<b>Color Swatch</b>	<b>Color Code</b>	<b>Gray Scale</b>
	Color 817	4-5
	Color 818	4
	Color 819	3-4
	Color 820	4
	Color 821	4
	Color 822	4
	Color 823	3-4

<b>Color Swatch</b>	<b>Color Code</b>	<b>Gray Scale</b>
	Color 824	3-4
	Color 825	3-4
	Color 826	3-4
	Recycled Black EPDM	5