

Elcometer 6210 RAL Colour Charts



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The system of reference colours, enabling many industrial products to be identified, compared and classified. Available in the form of compact colour charts, or in separate sheets of different sizes, with or without colorimetric identification, separately or in groups, in a file or a box.

Can be used in accordance with:
DIN 5381

The RAL CLASSIC Colour Collection

The 4-digit RAL Colours have been the standard for choosing colours for more than 70 years now.

At the beginning the colour collection included 40 different colours. Its number has risen to more than 200 today. The basic collection for matt colour shades is called RAL 840-HR, the one for glossy colour shades RAL 841-GL. Both basic collections contain colour samples that are being used by important institutions to cover a wide range of applications and are constantly adapted to the requirements of the industry. The registers are being used as colour samples for designs. They also contain safety- and signalling colours and fulfil the colour requirements of DIN regulations.

	<p>RAL 840-HR Colour collection of RAL CLASSIC Colours</p> <ul style="list-style-type: none"> • DIN A5: 145 x 210mm (5.71 x 8.27"), size of colour samples DIN A6: 105 x 148mm (4.13 x 5.83") • original colour samples for colour matching and quality control • cards can also be ordered separately • semi gloss finish
	<p>RAL 841-GL Colour collection of RAL CLASSIC Colours</p> <ul style="list-style-type: none"> • original colour samples for colour matching and quality control • colour distance to the master sample noted on each card (measured by spectrophotometer) • cards can also be obtained separately • gloss finish
	<p>RAL-K1 Booklet with all RAL CLASSIC Colours</p> <ul style="list-style-type: none"> • 104 x 190mm (4.09 x 7.48"), colour samples 18 x 28mm (0.71 x 1.1") • 16 colour patches on each page • gloss finish

Appearance

Appearance measurement is a way of putting numbers to characteristics of surfaces that we see. The ability to independently quantify appearance allows for products to be similar whenever and wherever the product is manufactured or coated.

Elcometer provide a comprehensive range of hand held instruments to measure most of the individual characteristics that generate the overall appearance of a material or coating.

Gloss

The ability of a surface to reflect light without scattering is known as Gloss. Gloss is measured by directing a constant power light beam at an angle to the test surface and then by monitoring the amount of reflected light. Different surfaces require different reflective angles. Elcometer Glossmeters cover the range necessary to measure almost any surface from high gloss to matt, from large to small surfaces - flat or curved

Haze

Some materials appear to have considerable difference in gloss yet give comparable readings when measured with a glossmeter at one angle. These materials can be separated by measuring at a second angle and comparing the difference of the two readings. Haze is defined by ASTM D4039 as the difference between gloss at 60° and the gloss at 20°.

Model	Description	Part Number
Elcometer 6210/1	Elcometer 6210 RAL Colour Chart k5	K0006210M001
Elcometer 6210/2	Elcometer 6210 RAL Colour Chart k7	K0006210M002
Elcometer 6210/6	Elcometer 6210 RAL Colour Chart f9 German Federal Armed Forces	K0006210M006
Elcometer 6210/9	Elcometer 6210 RAL Colour Chart 840hr 192 box	K0006210M009
Elcometer 6210/10	Elcometer 6210 RAL Colour Chart f1	K0006210M010
Elcometer 6210/11	Elcometer 6210 RAL Colour Chart f2	K0006210M011
Elcometer 6210/12	Elcometer 6210 RAL Colour Chart f3 5pcs	K0006210M012
Elcometer 6210/13	Elcometer 6210 RAL Colour Chart k1	K0006210M013
Elcometer 6210/14	Elcometer 6210 RAL Colour Chart k6 190 A4 charts	K0006210M014
Elcometer 6210/15	Elcometer 6210 RAL Colour Chart 841-gl 185 charts	K0006210M015

Shade

This is the measurement of darkness or lightness of a surface. Only shading is measured, irrespective of colour, and is referred to as 'whiteness'. The test surface is illuminated at an angle of 45° and the intensity of scattered light at the perpendicular (0°), is measured on a grey scale where black is 0% and white is 100%.

Opacity

This is the degree to which a coating will obscure the surface to which it has been applied. Opacity is measured in a similar way to shade, however opacity, or hiding power, as defined by ISO 2814 involves measuring whiteness of a known film of test material on both a black (less than 5%) and a white (greater than 75%, less than 85%) substrate. A full range of opacity test charts are available – See Leneta Test Charts for further information.

Colour

The ability of a material to absorb certain wavelengths of light and reflect others. For example a black material reflects no light across the complete colour spectrum, whereas a pure white material reflects all of the light. All other colours reflect light at different points of the spectrum. Colour is quantified by the material's Red, Green and Blue (RGB) values.

Related products



Elcometer 6014

The Elcometer 6014 Shade & Opacity Meter is a low-cost dual function reflectometer for measuring shade and opacity using 45/0° geometry.

This 2-in-1 gauge is the perfect choice for any industry that needs to measure the shade and opacity of their products.



Elcometer 406L

Elcometer 406L Statistical Mini Glossmeter has a memory of up to 200 readings and can be connected to the Elcometer Novo-Soft™ Software for further analysis and archiving. Single and dual angle versions are available.



Elcometer 407

The Elcometer 407 Statistical Glossmeter is a handheld gauge for measuring gloss at 20°, 60° and 85° and can be connected to the Elcometer Novo-Soft™ Software for further analysis and archiving.



Elcometer 400

The Elcometer 400 is perhaps the only glossmeter designed specifically for measuring curved surfaces, small components and complex shapes. The continuous reading mode allows the rapid assessment of finish variation and measures a whole range of products and designs.

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