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elcometer

Elcometer 6210 RAL Colour Charts

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A system of reference colours, enabling many industrial products to be identified, compared and classified, ideal for use with Elcometer 6300 Colour Assessment Cabinets.

Available either in the form of compact colour charts or in separate sheets of different sizes, with or without colourmetric identification, separately or in groups supplied in a file or a box.

Appearance
Visual appearance can determine a person's perception of a product. Colour and Gloss are two key parameters that are used to define a product's overall quality. Perception is subjective, but Elcometer's range of instruments quantify the appearance criteria.

Gloss: The ability of a surface to reflect light without scattering is known as gloss. Gloss is measured by directing a constant intensity light beam at a fixed angle to the test surface and then by monitoring the amount of reflected light at the same angle. 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 a considerable difference in gloss yet give comparable readings when measured with a traditional glossmeter. These materials can be differentiated by measuring at a second angle and comparing the two readings using a haze meter. Reflectance haze is defined by ASTM D4039 as the difference between gloss at 60° and the gloss at 20°.

Shade: The measurement of darkness or lightness of a surface, 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 0° is measured on a grey scale, where black is 0% and white is 100%.

Opacity: The degree to which a coating hides the surface to which it has been applied is known as opacity. Measured in a similar way to shade, 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.

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

TECHNICAL SPECIFICATION		
	Elcometer 6210 RAL Chart K1	
	Part Number:	K0006210M013
	Elcometer 6210 RAL Chart K5 *Fan deck with RAL Classic colours*	
	Part Number:	K0006210M001
	Elcometer 6210 RAL Chart K6 *Folder with RAL Classic colour sheets*	
	Part Number:	K0006210M014
	Elcometer 6210 RAL Chart K7 *Fan deck with RAL Classic colours, 5 per sheet*	
	Part Number:	K0006210M002
	Elcometer 6210 RAL Chart 840-HR	
	Part Number:	K0006210M009
	Elcometer 6210 RAL Chart 841-GL	
	Part Number:	K0006210M015
	Elcometer 6210 RAL Chart F3 *Colour Chart, folded to A6*	
	Part Number:	K0006210M012

data sheet

Related Products

Elcometer 6300 Colour Assessment Cabinets

The Elcometer 6300 range of colour assessment cabinets, also known as light cabinets or colour matching booths, ensures accurate visual colour assessment and colour comparison. Constructed from steel, Elcometer's lightweight colour assessment cabinets are supplied with different light sources used to simulate different conditions.

Elcometer 6300

Elcometer 407 Triple Angle Statistical Glossmeter

The Elcometer 407 Statistical Glossmeter measures gloss at three angles of reflection; 20°, 60° and 85° and uses the internal memory to store readings.

Elcometer 407

Elcometer 6014 Shade & Opacity Meter

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 its products.

Elcometer 6014

Elcometer 6310 PANTONE® Formula Guide

The Elcometer 6310 Pantone Formula Guide is a simple and portable colour reference tool ideal for use by graphic designers, printers and alike and is supplied as a coated and uncoated two-part set, each containing 1,114 PANTONE® colours.

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