

Elcometer 3095 Buchholz Hardness Tester



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At a glance

- Measures the hardness using the indentation method.
- Supplied with illuminated microscope.
- Very easy to use test which determines the hardness from the length of the indentation observed.

Elcometer 3095 Buchholz Hardness Tester

Unit for measuring hardness by the indentation of a bevelled disc indenting tool with a sharp edge. This is fitted onto a steel block with two supports providing a constant test load of 500g.

When placed on a coating for 30 seconds, the instrument leaves a trace that can be observed with the x20 microscope, with graduations every 0.1mm. The indentation length is then recorded. This length of the trace is inversely proportional to the hardness.

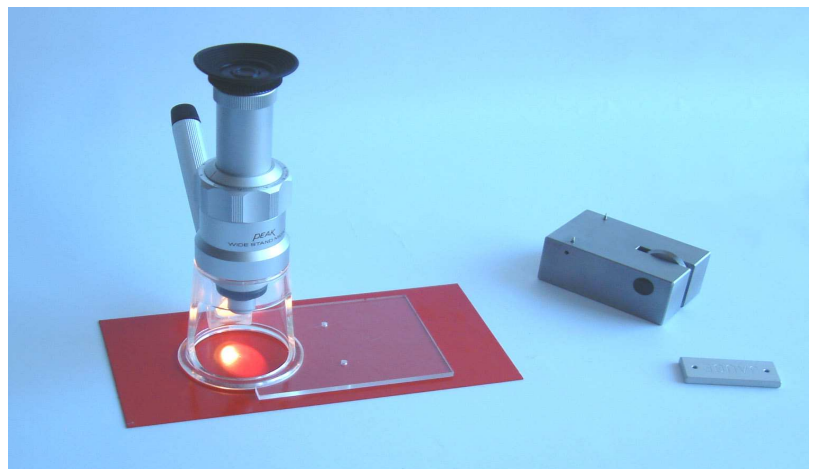
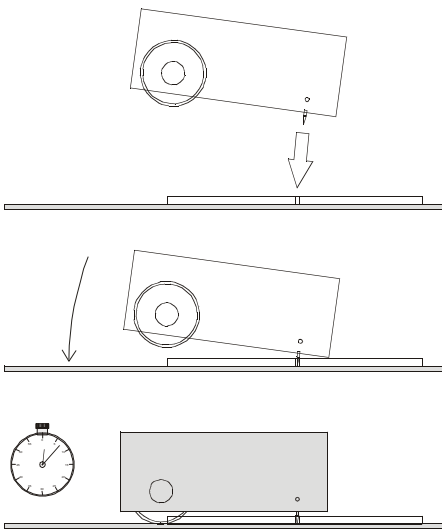
Supplied with an indentation locator template, and illuminated microscope.

Hardness Testers

Improved mechanical resistance is part of many quality requirements. One important criteria for assessing this feature is hardness.

Depending on the requirements there are various methods for testing hardness. Some are dedicated to characterise coatings and others are more suitable for testing bulk materials such as metals, plastics, rubber or elastomers.

Elcometer manufacture and supply a wide range of instrumentation designed for the hardness tests most frequently used in the industry – these include pendulum, scratching, indentation or rebound measuring methods.



Model	Description	Part Number
Elcometer 3095	Buchholz Hardness Tester	K0003095M001
Accessories	Spare Pin Supports (2)	KT003095P001
	Bevelled Hardened Steel Disc	KT003095P002
Packing List	Indentation tool with bevelled disc and two locating pins, Pin adjusting shim, Indentation locating template, Illuminated microscope, Hexagonal wrench, Plastic carrying case & Operating Instructions	

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Indentation length	Indentation resistance	Indentation depth		Minimum coating thickness for which a measurement is valid	
		(μm)	(mils)	(μm)	(mils)
0.8	125	5	0.2	15	0.59
0.85	118	6	0.24	20	0.79
0.9	111	7	0.28	20	0.79
0.95	105	7	0.28	20	0.79
1.0	100	8	0.31	20	0.79
1.05	95	9	0.35	20	0.79
1.1	91	10	0.39	20	0.79
1.15	87	11	0.43	25	1
1.2	83	12	0.47	25	1
1.3	77	14	0.55	25	1
1.4	71	16	0.63	30	1.18
1.5	67	18	0.71	30	1.18
1.6	63	21	0.83	35	1.38
1.7	59	24	0.94	35	1.38

Can be used in accordance with:	
BS 3900 E9	DIN 53153
ECCA T12	EN ISO NF 2815
NFT 30-052	

Related products



Elcometer 3101

The barcol tester is a very handy instrument used to check the hardness of many materials, including plastics, leather and soft metals. When pressure is applied to the device a point penetrates the material and the degree of hardness is displayed on the dial.



Elcometer 7300

A professional high precision stopwatch is required for measuring the flow time of a coating or other product under test with a viscosity cup.



Elcometer 3120

A range of instruments used to determine the hardness of soft materials such as rubber, wood, leather, formica, etc. A point or ball penetrates the material under spring pressure with a variable force depending on the model and a direct reading is displayed on the dial.

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