

PARAMETERS AND TESTING METHODS

Test Criteria	Description	Units
Weight per unit area to DIN 53103 and ISO 536	A sample of at least 500 cm ² is weighed, preferably with the format 200 x 250 mm.	g/m ²
Thickness to ISO 534	The determination is carried out using calipers with 2 cm ² jaws at 25 kPa contact pressure.	mm
Breaking load DIN 53112 part 1	At 15 mm wide and 100 mm long strip is subjected to an increasing vertical load. The force at the moment the strip tears is the breaking load. It is measured both longitudinally and transversely.	N/15 mm width
Bursting pressure DIN 53141 part 1	A 10 cm ² paper sample is stretched over a rubber membrane. A constantly increasing force is applied and the pressure at the moment of bursting is measured.	N/cm ²
Gurley Test ASTM-D726	Measurement of the time taken to filter 100 ml air at a pressure of 31 mm water column and a filter area of 1.56 cm ² .	s
Air permeability DIN 53887	The amount of air passing through the filter at a differential pressure of 2 mbar is measured.	L/m ² s
Filtration time Herzberg	The time taken to filter 100 ml prefiltered, distilled water (20 °C) through a filter area of 10 cm ² at a constant pressure of 50 mm water column is measured.	s
Filtration time DIN 53137	The time taken to filter 14 ml distilled water (20 °C) through a freely suspended and completely soaked quadrant-folded 125 mm diameter round filter paper is measured.	s
Capillary rise DIN 53106 (Klemm)	The height, which a 15 x 250 mm paper strip, whose narrow side is immersed in prefiltered distilled water (20 °C), becomes wet after 10 or 30 minutes.	mm
Retentivity DIN 53138	Testing the retention capability with precipitates of iron (III) hydroxide, lead sulfate, calcium oxalate and barium sulfate.	visual assessment
Ash Content DIN 54370	Weighing the residue after 10 g filter paper is ashed in a platinum crucible.	%
Separating performance BS 4400	The paper is sprayed with NaCl aerosol <1 µm (maximum 0.3-0.5 µm). Any aerosol passing through the paper is determined photometrically.	%
Resins and fats DIN 54354 (dichloromethane extraction)	20 g paper are extracted with dichloromethane according to the Soxhlet method.	mg / 100g
Wet strength	A filter test area of 14.5 cm ² is tested to destruction by applying a constantly increasing water column.	mm water column
Water absorption (plant standard)	Determined by the differential weighing of a paper with an area of 100 cm ² Weight 1 = dry weight Weight 2 = weight after immersing the sample in distilled water for 1 minute and removal of the excess surface water between two grade FP591 filter papers. (Weight 2 - Weight 1) x 100 = water absorption.	g/m ²

