

METALVAC: TECHNICAL PROPERTIES

PROPERTY	RELATED REGULATION	INFLUENCE ON PRODUCT QUALITY
CHARACTERISTIC		
Substance	ISO 536	Intrinsic property related to the customer's requirements. For paper in reels, substances somewhat below the nominal values are established in order to increase productivity. Some papers (coated, bulk, thermal paper) prioritize thickness over substance with the aim of meeting specific objectives concerning the final measurements of the spine or small reels.
Thickness/caliper	ISO 534	Intrinsic property related to the customer's requirements. For paper in reels, substances somewhat below the nominal values are established in order to increase productivity. Some papers (coated, bulk, thermal paper) prioritize thickness over substance with the aim of meeting specific objectives concerning the final measurements of the spine or small reels.
Gloss-60°	ISO 2813	Property related to the appearance of the product. The reflective character of the surface improves the gloss quality of the print. There are 3 measurement systems by light reflection in three distinct angles (coated-75°, cast-coated-20° and metallized-60°). In each case the system applied is the most accurate way of quantifying visual perception.
RUNNABILITY		
Absolute/relative humidity	ISO 287/Tappi T502	Absolute humidity is a measure of the water content of the paper (manufacturing control). Relative humidity denotes the moisture content of the paper balanced with environmental conditions. Moisture content in balance with the environmental conditions of operation areas allows for a print free of movements and disruptions and avoids problems of curl during operation. Paper subjected to operation processes at high temperatures (rotary, laser printing, silk screen printing, etc.) requires lower humidity in order to avoid curling or blistering.
Dry traction resistance		Properties of resistance which improve the features of paper in reels during operation and have an influence on: -tension in rotary printing and folding -rupture of the paper web in products of low substance and during matrix stripping
APPLICATION		
Cobb	ISO 535	Sizing measures the capacity of the paper to absorb water that comes into contact with its surface. For labeling papers, Cobb sizing is carried out on the back of the paper as it is related to the paper's ability to absorb adhesive.
Resistance to wet traction	ISO 3781	Property related to the physical resistance of the paper itself, its sizing, and the content of its composition of additives that strengthen this characteristic in humid conditions. Has an influence on the physical resistance of the label in bottling processes and the subsequent use of container in conditions of high humidity, condensation and even immersion in water (wrinkling, surface damage and tearing of labels).
Alkali resistance	DIN 16524-7	The behavior of this property, applicable to label papers for recoverable bottles, is determined during the washing process and recovery of the bottle. The process involves a washing line with a soda solution and requires that: - the label not come apart and is recovered completely so as not to dirty the bath - the print does not get damaged, for the same reason - the label become detached from the bottle during the process (in order to avoid having bottles come out with labels already stuck to them)