testing equipment for quality management

Foil Thickness Measuring Instrument Model 497

Small and handy measuring instrument

Non-destructive difference measurements
Foil Thickness Measuring Instrument, Model 497

Purpose and Application

The foil thickness measuring instrument is used in two fields:
It may be used to measure the thickness of sheet metal, plastic foil, carton, paper, and other laminates, in a direct manner.
The second and more important application from the point of view of coating material technology is the thickness measurement of coating materials on thin base material previously referred to. If the base material is non-metallic, magnetic or electric, thickness measurement techniques cannot be employed. For non-destructive testing this instrument is the only possible method of measuring differences. A particularly important field of application for this instrument, for which it can be considered to be essential is the measurement of "Leneta" foils for the scrubbing resistance test in accordance with the German standard DIN 53 778 Part 2 and on black and white contrast cards for color measurement and hiding power. (Our instruments for this: Microprocessor Controlled Film Applicator and Drying Time Recorder, Model 509 MC; ERICHSEN-Washability and Scrub Resistance Tester, Model 494; Film Applicators, Models 288, 358, 360, 411, 421; Test Cards, Model 451.)

Test Procedure

The measuring probe is raised by applying pressure to the thumb lever, the specimen is placed between the support face and the plunger, and the plunger is slowly lowered after which the result is read off on the scale.

Technical Data

Net weight, approx.: 100 g
Measuring range: 0 - 1000 µm over 5 pointer revolutions,
Scale 0 - 200 µm with 1 µm divisions
Readout accuracy: ± 1 µm
Depth of throat: 30 mm
Size of support face: approx. 6 mm dia., flat,
= approx. 30 mm²
Measuring pressure: approx. 1.2 N,
= approx. 0.04 N/mm²

Design and Function

The foil thickness measuring instrument, Model 497, is a small handy measuring instrument of high precision. It consists of the measuring bracket with support face, plunger and dial gauge with zero point setting, hand grip and thumb pressure lever. The bracket has a high rigidity, the hand grip is heat insulated from the dial gauge. The instrument is supplied in a protective plastic case.

Ordering Information

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<th>Ord.-No.</th>
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