

**Tobias**

# TBX-MC™

## Transmission Densitometer for Metallized Coatings

- Measures consistencies of metallized coatings.
- Measures the amount of light transmitted through coated films.
- Accurate readings that are highly repeatable.
- Objective values to assist the manufacturer to meet the specifications that are set by the purchaser.



### **New Q.C. Instrument for Metallized Films.**

The Tobias TBX-MC™ is the first densitometer specifically designed to read the Optical Density (OD) of metallized films commonly used in the packaging industry. Measuring the light transmission of these films allows for proper process control of coating thickness and film consistency. This will result in a closer adherence to target specifications, meeting the requirements of both supplier and customer. Tighter process control will result in improved product performance and better control of the UV blocking, as well as the moisture and oxygen barrier properties of the film. The wide density range capability of the TBX-MC allows measurements of many different types of films and laminates. When both the supplier and buyer have their own TBX-MC densitometer as a quality control tool, the result will be reduced waste and improved cost savings.



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## FEATURES

Minimal warm-up time.  
 Long, 9-inch throat to measure larger samples.  
 Easy to use.  
 Readings are accurate and repeatable.  
 Light table for ease of positioning of material.  
 Use the Null mode for process control.  
 The initial reading automatically “zeroes” the unit.  
 Calibration standard is traceable to NIST.

## SPECIFICATIONS

<b>Dimension</b>	9.5x14.6x7” (241x371x177mm)	<b>Weight</b>	8.5 lb (3.9 kg)
<b>Platform</b>	9x10.8” (229x274 mm)	<b>Warm-up Time</b>	<5 seconds
<b>Throat depth</b>	9” (229 mm)	<b>Aperture</b>	3mm
<b>Measuring Range</b>	0 to 6.00D	<b>Power</b>	120/240V, 50/60Hz, 25W
<b>Accuracy</b>	±0.02D	<b>Precision</b>	±0.01D
<b>Display</b>	7 segments, ½” LED	<b>Output Port</b>	Serial RS-232, 300-9600 bps
<b>Optical Design</b>	ANSI PH2.19 ISO Visual Spectral Response		

## DEFINITIONS

Optical density is a measure of the light blocking properties of materials and uses a logarithmic scale. Since metallized film only transmits a small portion of the light the use of this scale allows the unit to monitor small changes in the coatings of the film.

<b>Optical Densities</b>	1.00	1.50	2.00	2.50	3.00
<b>% Transmission</b>	10.0	3.0	1.0	0.3	0.1

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