

RHOPOINT  
NOVO-HAZE



## TRANSMISSION HAZEMETER

### NOVO-HAZE

- Measures total transmission and haze
- Measure to ASTM D1003 (CIE C)
- Suitable for plastic films, and other transparent materials

**Fast and accurate measurement of the optical quality of plastic films, and other transparent materials.**

**This instrument measures total transmission and haze according to ASTM D1003 (CIE C), the most important standard used in most QA applications.**

**Manufactured in direct response to industry requirements, the Novo-Haze TX is offered at huge savings compared to other instruments which contain additional superfluous test methods.**

The instrument features an intuitive user friendly interface which minimizes the test time and makes it an ideal choice for both QC and R&D.

Uncompromising design, high quality materials and European manufacture make the Novo-Haze TX the ideal choice for any laboratory or QA environment.

At 50% of the price of the market leader for only measuring to this standard (ASTM D1003, CIE C), the Novo-Haze TX represents huge savings without compromising measurement accuracy.



## WHAT IS TRANSMISSION HAZE?

The Novo-Haze TX transmission hazemeter quantifies the optical qualities of transparent materials. The two most important aspects are:

**1. Transmission** – a measurement of the total amount of light that passes through a material that is influenced by absorption and reflective properties.

In the plastic film industry the transmission measurement is related to the opacity of the material and/or the hiding power of the applied coatings.

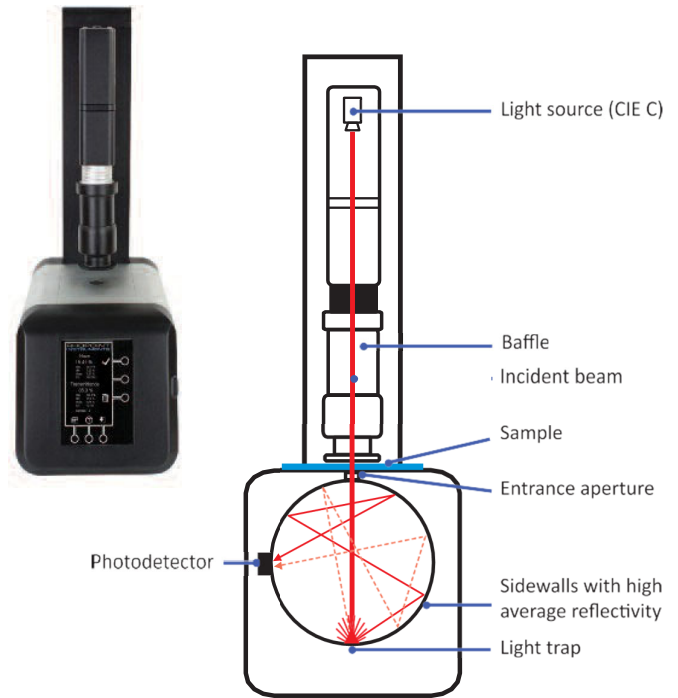
**2. Transmission Haze** – a measurement of the light scattering characteristics of a material. Haze can be due to suspended particles or contaminants within a sample or fine surface texture & contamination. Haze measurement can be used to quantify optical characteristics of plastics and packaging films.

In packaging applications hazy films may reduce a consumer's quality perception as packed products can look cloudy and indistinct. For plastics with haze the visibility of the test material becomes more apparent and the contrast of viewed objects is reduced.



Viewed through  
material with  
low haze

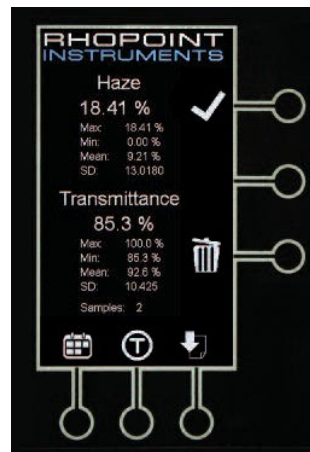
Viewed through  
material with  
**higher haze**



## USER INTERFACE

The Novo-Haze TX has an intuitive touch sensitive interface making it incredibly easy to use. There are no complicated menu structures – all measurement functions are accessible from one screen.

Single touch button or the footswitch can be used to initiate single measurements or automatic measurement mode.



At the end of the test the percentage of Haze and Transmittance are shown on screen.

If multiple tests are performed, statistics for the batch will be displayed and can be printed to the results printer to keep with retained samples.



## SPECIFICATIONS

### HAZE

**Repeatability**  
± 0.05 units SD

**Reproducibility**  
± 0.4 units SD

**Resolution**  
0.01%

### TRANSMISSION

**Repeatability**  
± 0.2 units SD

**Reproducibility**  
± 1.0 units SD

**Resolution**  
0.01%

### Light source

White light LED filtered for equivalence to CIE C luminosity function  $\lambda$  plus human photopic response

**Measurement Area**  
Ø 14mm

**Measurement Range**  
0-100%

**Geometry**  
0° / diffuse

**Sample Thickness**  
Maximum 3mm, standard instrument  
Maximum 10mm using additional light baffle

**Measurement Standards**  
Conforms to ASTM D1003 (CIE C)  
Verified to ISO 14782, ISO 13468-1, JIS K 7361

**Memory**  
>10,000 via USB stick  
Internal memory: 99 (for statistical analysis only)

**Power Supply**  
230V / 50Hz, 115V / 60Hz

**operating Conditions**  
Operating temperature: 15 to 40°C  
Storage temperature: 0 to 50°C

**Data Transfer**  
Data transfer via USB memory stick to csv

**Dimensions & Weight**  
580mm x 200mm x 320mm (H x W x D)  
Weight: 16.9kg  
Packed weight: 21.7kg  
Packed dimensions: 720mm x 440mm x 320mm (H x W x D)  
Commodity code: 9027 5000

### LOCAL RESELLER:



### Oakland Instrument Corporation

5220 12<sup>th</sup> Avenue East  
Shakopee, MN 55379

WEB: [www.OaklandInstrument.com](http://www.OaklandInstrument.com)

EMAIL: [Sales@OaklandInstrument.com](mailto:Sales@OaklandInstrument.com)

TEL: (952) 835-4935

## INCLUDED ACCESSORIES

2 x Haze checking standards, NPL traceable  
24V DC power supply with mains cable  
Calibration certificate  
USB data stick

## OPTIONAL ACCESSORIES

Results printer

Footswitch

### CALIBRATION AND SERVICE

Fast and economical service via our global network of accredited calibration and service centers. Please visit [www.OaklandInstrument.com](http://www.OaklandInstrument.com) for detailed information.