

TRANSPARENCY METER

by: AINIE KUNTOM, LEE CHAK KHIAM¹, HARLINA DAMIRI¹
AND LOW KUM SANG²

JUNE 1999



PORIM TT No. 52

PORIM INFORMATION SERIES

ISSN 0128-5726

Transparency Meter* is a tool for measuring the transparency, translucency and clarity of materials in the form of solids, liquids or gels. Measurement is based on a new method which is superior to the subjective visual observation or direct transmission

methods. The method is based on light scattering effect through various media using a laser light source. The more particles present in the medium, the more scattered is the incident light. This phenomenon is used to differentiate the degree of transparency, translucency or clarity of materials.



* Patent pending (Malaysia)

ISSN 0128-5726



9 770128 572000

Palm Oil Research Institute of Malaysia, Ministry of Primary Industries, Malaysia
P. O. Box 10620, 50720 Kuala Lumpur, Malaysia. Tel: 03-8259155, 8259775, Homepage: <http://porim.gov.my> Telefax: 03-8259446
1 Fotontec Sdn. Bhd.
2 Universiti Malaya



FEATURES

- Rapid and accurate quantitative measurement of transparency
- Independent of colour of materials
- Independent of the operator's eyesight
- Laser-based technology
- Computerised data acquisition and report generation

APPLICATIONS

The method is applicable in food and non food industries such as bar/liquid soap, liquid oil, shampoo, hair gels/tonics and beverages.

For more information kindly contact:

Director-General
PORIM
P. O. Box 10620
50720 Kuala Lumpur, Malaysia.

or

Fotontec Sdn. Bhd.
No. 2, UM-MTDC Technology Innovation Centre,
University of Malaya, Lembah Pantai
50603 Kuala Lumpur, Malaysia
Telephone: 603-7541078
Facsimile: 603-7541079
E-mail: leec@pc.jaring.my