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**Identification cards — Physical  
characteristics**

**AMENDMENT 2: Opacity**

*Cartes d'identification — Caractéristiques physiques*

*AMENDEMENT 2: Opacité*

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Amendment 2 to ISO/IEC 7810 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and personal identification*.

It updates opacity requirements by providing criteria to match a new test method that is published in ISO/IEC 10373-1.

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## Identification cards — Physical characteristics

### AMENDMENT 2: Opacity

*Page v, Introduction*

Add the following after the last numbered point:

The test method and criteria for opacity has changed. Previously the test method used a spectrophotometer and criteria included both visible and IR light. The present method uses 2 frequencies of only IR light and a reference material to establish compliance.

*Page 2*

Add the following to the end of Clause 4:

#### 4.12

##### **opacity reference**

reference card designated ORM 7810 used to establish opacity compliance

NOTE Opacity reference cards can be ordered from Eclipse Laboratories, 7732 W. 78th Street, Bloomington, MN 55439, USA until at least 2013.

*Page 5*

Replace the first paragraph in subclause 8.10 with the following text and equation:

All machine readable cards shall have the ability to block infrared wavelength light through the card to the extent as shown in the equations below. The current through the test sensor shall be less when the card is positioned between the source and sensor ( $I_{\text{card}}$ ) than when the opacity reference is positioned between the source and sensor ( $I_{\text{ref}}$ ). See ISO/IEC 10373-1 for compliance test procedures.

$$\frac{I_{\text{card at 860 nm}}}{I_{\text{ref at 860 nm}}} < 1 \quad \text{AND} \quad \frac{I_{\text{card at 950 nm}}}{I_{\text{ref at 950 nm}}} < 1$$

*Page 5*

Delete Note 2 and Note 4 and change Note 3 to become Note 2.

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