
**Road vehicles — Safety glazing
materials — Method for the
determination of solar transmittance**

*Véhicules routiers — Vitrages de sécurité — Méthode de
détermination du facteur de transmission du rayonnement solaire*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 35, *Lighting and visibility*.

This second edition cancels and replaces the first edition (ISO 13837:2008), which has been technically revised.

The main changes compared to the previous edition are as follows:

- deletion of definitions of convention “A” and convention “B”;
- deletion of all texts and tables corresponding to air mass 1,0 global;
- revision of 3.1;
- addition of some symbol definitions for variables and parameters;
- addition of calculation methods for luminous transmittance [T_L], solar direct reflectance [R_e], solar direct absorbance [a_e] and colorimetry;
- revision of calculation method for solar UV transmittance [$T_{UV(380)}$] to calculate with air mass 1,5 global;
- addition of a new [Table 1](#) for calculation of luminous transmittance [T_L], a new [Table 2](#) for calculation of solar UV transmittance [$T_{UV(380)}$], and a new [Table 5](#) for calculation of colorimetry;
- revision of [Table 3](#) (former [Table 1](#)) for calculation of solar UV transmittance [$T_{UV(400)}$], [Table 4](#) (former [Table 2](#)) for calculation of solar direct transmittance [T_e], solar direct reflectance [R_e], and [Table A.1](#) for explanation of the derivation process;
- revision of [Annex A](#) to list the source of values in the new solar weight tables and give out the derivation process of [Table 3](#) as an example;