

9940203 RETROREFLECTIVE AND NONREFLECTIVE SHEETING AND SIGN PANEL  
FABRICATION  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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**994-2.3.3 Colorless Overlay Films:** Colorless overlay film is allowed for the purpose of improving color retention. These films must be compatible with the sign sheeting system and not delaminate or discolor for the in-service life of the system.

For UV blocking, measure the transmission from **325-350** nm per ASTM E903 (D1003, E308). The average total hemispherical transmittance (THT) over the wavelength range shall be less than 1% for the film laminated to an appropriate transparent substrate (quartz slide).

(Note: It is important to clarify that the film needs to be laminated to an appropriate transparent substrate to get any meaningful data.)

For visible light performance, the laminated construction of white base sheeting and clear overlay shall meet the reflectivity requirements of the base sheeting.

Response: ASTM D1003 which we believe is the only one of the test procedures that applies, this procedure will be added to specification. Change made.

ASTM D1003 refers to the measurement as “luminous transmittance” not “total hemispherical transmittance”. No change made.

The spectral limits and acceptable value will be modified. Change made.

We do not believe the film needs to be laminated to a transparent substrate. No change made.

The retroreflectivity requirements are covered by 994-2.1 and will not be altered for clear overlay film. No change made.

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