STATE OF CALIFORNIA—BUSINESS, TRANSPORTATION AND HOUSING AGENCY

**DEPARTMENT OF TRANSPORTATION**
**ENGINEERING SERVICE CENTER**
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# METHOD OF TEST FOR DIFFUSE LIGHT TRANSMISSION FACTOR OF LARGE REINFORCED PLASTIC PANELS

**CAUTION:** Prior to handling test materials, performing equipment setups, and/or conducting this method, testers are required to read "**SAFETY AND HEALTH**" in Section H of this method. It is the responsibility of the user of this method to consult and use departmental safety and health practices and determine the applicability of regulatory limitations before any testing is performed.

## A. SCOPE

This test method describes the procedure to determine the diffused light transmission factor of translucent plastic panels.

## B. APPARATUS

The apparatus used in this test method shall conform with the requirements in ASTM Designation: D 1494.

## C. PREPARATION OF SAMPLE

The test sample shall have a minimum length of 610 mm and a width of 660 ± 50 mm.

## D. STANDARDIZATION AND TEST

With the instrument in the shorted position, adjust the galvanometer to read zero. Turn on that apparatus and wait 20 min for the equipment to warm-up. Adjust the galvanometer to read 100 without a sample in the compartment. Place the test panel in the compartment and read the transmission directly on the galvanometer, to the nearest 1 %.

## E. REPORTING

1. Report the test results on Form TL-6039. The transmission of the test specimen is recorded to the nearest 1 %.

2. The average thickness of the test specimen shall be expressed to the nearest 0.02 mm. Each average thickness will be determined from 10 or more individual measurements.

## H. SAFETY AND HEALTH

Prior to handling, testing or disposing of any waste materials, testers are required to read: Part A (Section 5.0), Part B (Sections: 5.0, 6.0 and 10.0) and Part C (Section 1.0) of Caltrans Laboratory Safety Manual. Users of this method do so at their own risk.

## REFERENCE:

**ASTM Designation: D 1494**

**End of Test (California Test 651 contains 1 page)**