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NEAR-NORMAL/HEMISPHERICAL SPECTRAL TRANSMITTANCE REPORT

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NEAR-NORMAL/HEMISPHERICAL SPECTRAL TRANSMITTANCE REPORT

1.0 INTRODUCTION

This report presents results of spectral transmittance measurements on the following plastic specimen coded:

Polystyrene with UV Additive

2.0 TEST METHODS AND PROCEDURES

Hemispherical transmittance measurements were performed on the specimens in accordance with ASTM Standard Test Method E903 (1996). The measurements were performed with a PerkinElmer Lambda 950 Spectrophotometer utilizing an integrating sphere (Figure A1.4 of E903 1996). Transmittance measurements were obtained in the solar spectrum from 400nm to 250nm at an incident angle of 0 degrees. The measurements are properly denoted as being `near normal/hemispherical spectral transmittance'. All data are submitted herewith in the original.

The ultraviolet region of the spectral data (300 to 400nm) was integrated using 15 weighted ordinates from Air Mass 1.5 direct spectrum.

3.0 OBSERVATIONS, DEVIATIONS, AND WAIVERS

The measurements were performed on the coded side of the specimen.

Five additional specimens were submitted, reference report numbers 26250-2, 26250-3, 26250-4, 26250-5, and 26250-6.

With all test methods, there typically is a level of uncertainty for the test data due to the acceptable operating tolerances of the instrumentation and variation caused by the test method. The estimated tolerances are expected to be plus or minus ½ % when comparing the NIST standards bi-monthly.

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4.0 RESULTS

Specimen Code	% UV Transmittance
Polystyrene with UV Additive	1.5