

**DSET LABORATORIES**

A Division of Atlas Material Testing Technology LLC  
45601 North 47<sup>th</sup> Avenue  
Phoenix, Arizona 85087 U.S.A.  
Phone: +1 623-465-7356  
Toll Free: 800-255-3738 (U.S. only)  
Fax: +1 623-465-9409  
www.atlas-mts.com

Report No.: 41260-0  
Order No.: AE41260  
Client Ref. No.: PO #: Verbal Ed Jr  
Date: July 12, 2021

**NEAR-NORMAL/HEMISPHERICAL SPECTRAL TRANSMITTANCE  
TEST REPORT**

prepared for:

**PRO-MOLD INC.**  
206 Haigh Road  
Kipton, OH 44049

presented by:

Atlas Weathering Services Group  
45601 North 47th Avenue  
Phoenix, AZ 85087-7042  
Phone: 622-465-7356

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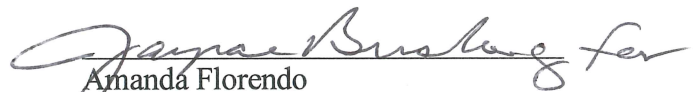
This report contains 3 pages

Prepared by:



Erika Wunderlich  
Group Leader, Evaluation Services

Approved by:

  
Amanda Florendo  
DSET Site Supervisor

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## NEAR-NORMAL/HEMISPHERICAL SPECTRAL TRANSMITTANCE TEST REPORT

### 1.0 SPECIMEN DESCRIPTION

This report presents the results of spectral transmittance on the following clear plastic specimen described by the client as:

MH35SA Magnetic Trading Card Holder

### 2.0 TEST METHODS AND PROCEDURES

#### Optical Property Measurements

Hemispherical spectral transmittance measurements were performed on the specimen in accordance with ASTM Standard Test Method E903. The measurements were performed with a PerkinElmer Lambda 950 Spectrophotometer utilizing an integrating sphere (Figure X1.4 of E903). Transmittance measurements were obtained in the solar spectrum from 450nm to 250nm at an incident angle of 0°. The measurements are properly denoted as being 'near normal/hemispherical spectral transmittance'.

The UV region of the spectral data (300 to 400nm) was integrated using 15 weighted ordinates from Air Mass 1.5 direct spectrum. It is advised these data were created using an outdated software version to which caution should be taken when utilizing these results.

### 3.0 OBSERVATIONS, DEVIATIONS, AND WAIVERS

The measurement was performed through one side of the holder with the outside of the specimen towards the light source.

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 less than plus or minus 2% for most materials tested to ASTM E903.

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**4.0 RESULTS**

Optical Property Data

Specimen Code	% U.V. Transmittance
MH35SA Magnetic Trading Card Holder	0.6