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ASPHALT TECHNOLOGIES

CERTIFICATE OF ANALYSIS

Report for: Transparent Protection Systems
6643 42nd Terrace North
West Palm Beach, FL 33407

Date: May 4, 2006

Attention: Scott Kuntz

Product Name: Polyolefin with Proprietary Additives (Translucent White)	Manufacturer: Transparent Protection Systems
Date Received: September 14, 2005	Source: Transparent Protection Systems
PRI Project No.: TPI-005-02-01	Metro-Dade Notification No.: PRI05026

Subject: The purpose of this project was to determine stress-strain performance properties of Transparent Protection Systems Polyolefin with Proprietary Additives (Translucent white) plastic material before and after 4500 hours of ASTM G 26, Xenon Arc Weatherometer exposure. This testing is to determine compliance with the requirements of Miami-Dade County Building Code Compliance Office **CHECKLIST #0445 FOR THE APPROVAL OF PLASTIC AND FOAM PLASTIC** and Florida Building Code 2004, Section 2612.2 approved plastics for outdoor exposure paragraph 2, Accelerated Weathering (6500 watt lamp) using ASTM G 155 and ASTM D 2565 for 4500 hours.

Materials: The plastic was cut from the sheets of plastic and used subsequently for the testing detailed in this report.

Test Methods: The test methods used included those found in ASTM D 638, *Standard Test Method for Tensile Properties of Plastics*. Specimens were exposed for 4500 hours in a Xenon Arc Weatherometer in accordance with ASTM G 26, *Standard Practice for Operating Light Exposure Apparatus (Xenon-Arc Type) With and Without Water for Exposure of Non-Metallic Materials*. It should be noted that ASTM G 26 was discontinued and replaced by ASTM G 155-00ae1: *Standard Practice for Operating Xenon-Arc Light Apparatus for Exposure of Non-Metallic Materials* and ASTM D 2565-00: *Standard Practice for Xenon-Arc Exposure of Plastics Intended for Outdoor Exposure*. Test specimens were conditioned at 73°F/50% RH for 40 hours prior to testing. Samples were cut to Type I dimensions using a TensilKut Machine. The crosshead speed was 2.0 in. per minute. A Shimadzu Model AGH, with data acquisition was used to test the samples. The instrument was calibrated in December 2005 by Instron Corporation using NIST traceable standards.

TPI-005-02-01 PRI Accreditations: ICC-ES TL-189; State of Florida TST 1556; Metro-Dade 03-0515.04; CRRG

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Transparent Protection Systems

Certificate of Analysis for Alternate Polycarbonate (#2) UV Stabilized (Transparent) Plastic

PRI05026

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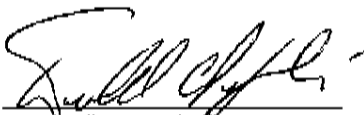
Results of Testing:

Specimen ID	Thickness, in.	Tensile Strength, lbf	Tensile Stress, psi	Elongation, %
As Received				
1	0.114	207	3639	135
2	0.108	195	3592	389
3	0.115	212	3617	517
4	0.112	197	3524	539
5	0.116	209	3574	437
Mean	0.113	204	3589	404
Standard Deviation	0.003	7.5	44.0	162
95% CI about Mean	0.004	9.4	54.6	201
After 4500 Hours Accelerated Weathering				
1	0.115	220	3681	110
2	0.114	205	3518	95
3	0.105	202	3807	114
4	0.116	214	3578	148
5	0.116	224	3856	122
Mean	0.113	213	3688	118
Standard Deviation	0.005	9.4	144	19
95% CI about Mean	0.006	11.7	179	24.2

The change in the average tensile strength (maximum load at yield) between the unexposed and 4500 hour weatherometer exposed samples was 4.4 percent and the change in tensile stress was 2.7 percent.

The unexposed and 4500 hour weatherometer exposed tensile strengths of this material was determined in accordance with the requirements of Miami-Dade County Building Code Compliance Office **CHECKLIST #0445 FOR THE APPROVAL OF PLASTIC AND FOAM PLASTIC**. This material complies with the requirement of a change in maximum load at yield of less than 10 percent between the unexposed and weatherometer exposed specimens.

Signed:



Donald C. Portfolio
Vice - President

Signed:



Charles L. Thomas
Professional Engineer
P. E. Number: 28439

Date:

5/9/06

Date:

5/9/2006

TPI-005-02-01

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