Celotex Corporation
Testing Services

10301 Ninth Street North
St. Petersburg, Florida 33716
(727) 578-4316
(727) 578-4280 Fax

PHYSICAL LABORATORY REPORT

January 8, 1999

Client: Film Technologies International Inc.
2544 Terminal Drive So.
St. Petersburg, FL 33712-1669

MTS Job No.: 520127

Test Date: January 4, 1999

Project: Estimating the Surface Abrasion Resistance of Film Technologies International, Inc. Plastic Film by the Measurement of its Optical Effects

Test Method: ASTM D1044-94, "Standard Test Method for Resistance of Transparent Plastics to Surface Abrasion"

Sample Identification: GlassGard 700PS SCR with Acrylic PSA (nominal coating weight – 0.009 gms/in^2)

Procedure:

Per ASTM D1044 four (4) 4-inch squares by thickness were submitted for testing. The specimens were initially measured for transmitted light and then again after the abrasion using an integrating sphere photoelectric photometer (Spectrogard Model 96). Initial and final readings were recorded.

Each specimen was mounted to a Research Model Taber Abrader. Abrasive wheels or "Calibrase" wheel (CS-10F) were mounted to their respective flange holders. A resurfacing stone was used for truing the abrasive wheels before each test. A 500 gram load was applied to the test specimen surface as each specimen was tested for 100 revolutions.

Abrasion testing was performed at Celotex Technical Center; transmitted light readings were performed at Film Technologies International, Inc. W. A. Jackson, of Celotex Technical Center, observed the abrasion testing and transmitted light test procedure performed at Film Technologies International, Inc., St. Petersburg, FL.

Calibration:

Spectrogard Model 96 calibration standard (last calibration April 16, 1992) performed by BYK-Gardner that certified traceability to NIST.

Results: The following table presents the results for the above specimens

Specimen I.D.	Initial Reading	Final Reading	Δ Haze
1	0.82	2.78	1.96
2	0.79	2.59	1.80
3	0.91	2.91	2.00
4	0.87	2.85	1.98
Mean	**0.85**	**2.78**	**1.94**
Standard Deviation	**0.05**	**0.14**	**0.09**

Testing Witnessed and Report by: W.A. Jackson

W. A. Jackson
Project Coordinator