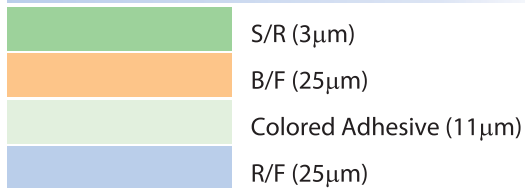


## Film Structure

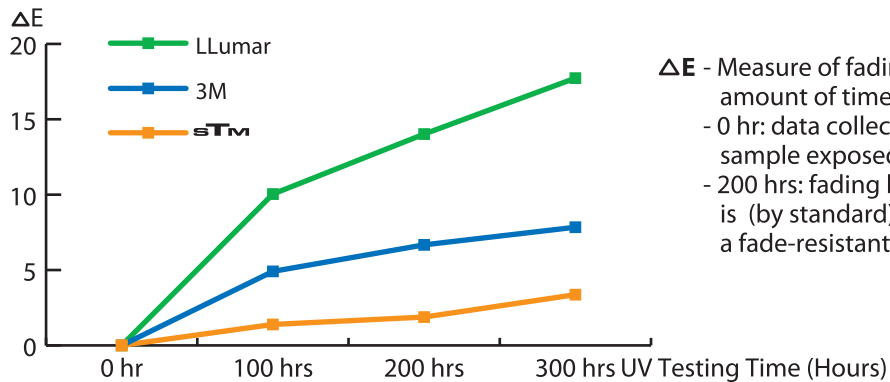
sTM: SS 35 (VLT 35)  
Normal 1Ply - Coated



## The Best Quality Film

- A wide array of sizes and colours
- Reflective, 2-tone, 1,2-ply film
- The special adhesive layer for clean removal of film

## Test Results (Average $\Delta E$ ) - Data Collected Over 100 Hour Increments



$\Delta E$  - Measure of fading within a specified amount of time for each sample tested  
 - 0 hr: data collected before sample exposed to UV light  
 - 200 hrs: fading below 1.5 at 200 hrs is (by standard) indicative of a fade-resistant product

Coated **sTM** Control Film is more resistant to fading than DYE-PET films

*No matter what you drive*







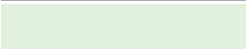
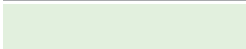
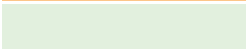







## Product Quality Test Results

### Outline

- TEST: Solar Control Film Fading Test
- Purpose: To compare fading of DYE-PET type Solar Control Film of 3M and LLumar to **sTM** Control Film
- Test Location and Date : KID, SBK R&D Laboratory on April 6, 2004
- Test Administrators: Jin Woo Lee, Kwang Won Kim

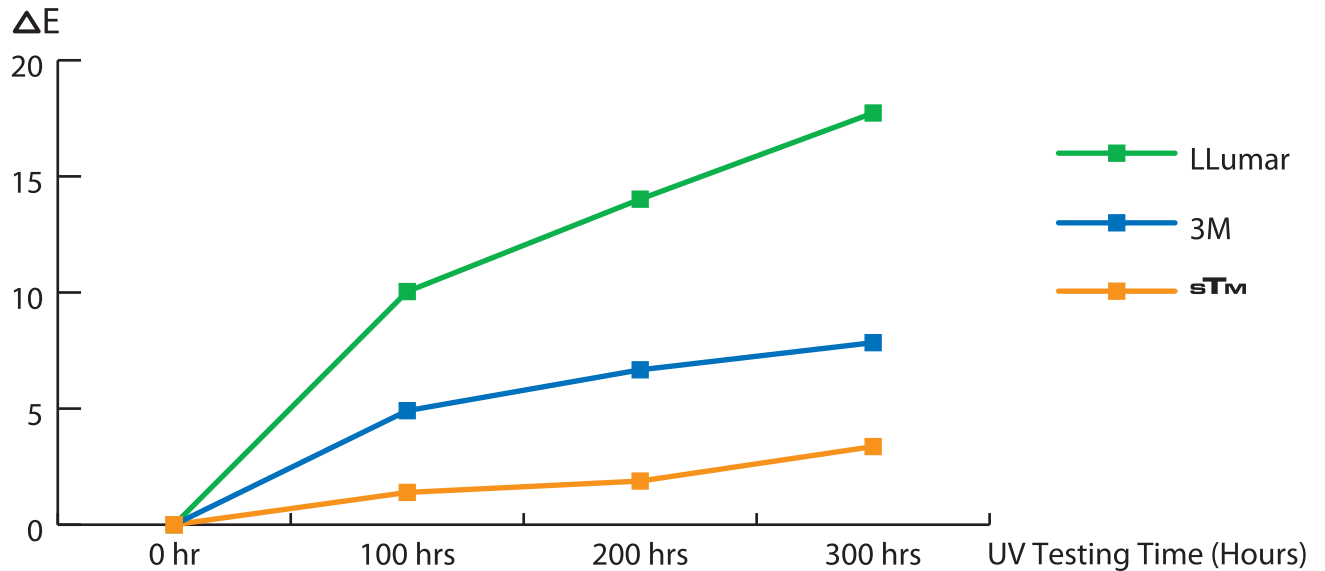
### Structure

3M: CS 20 (VLT 19-20) Normal 2Ply	LLumar: LK 20BK (VLT 17) Normal 1Ply	sTM: SS 35 (VLT 35) Normal 1Ply - Coated
 S/R (2μm)	 S/R (2~3μm)	 S/R (3μm)
 DYE-PET (12μm)	 DYE-PET (23μm)	 B/F (25μm)
 Adhesive (4μm)	 Adhesive (5μm)	 Colored Adhesive (11μm)
 DYE-PET (12μm)	 R/F (23μm)	 R/F (25μm)
 Adhesive (8μm)		
 R/F (25μm)		

### Test Results (Average Δ E) - Data Collected Over 100 Hour Increments

Product	CS 20 (3M)				LK 20BK (LLumar)				sTM 35 (SLP)		
	1	2	3	Avg.	1	2	3	Avg.	1	2	Avg.
<b>Trials</b>											
<b>0 hrs</b>	0	0	0	<b>0</b>	0	0	0	<b>0</b>	0	0	<b>0</b>
<b>100 hrs</b>	4.86	4.97	4.89	<b>4.91</b>	10.06	10.09	9.98	<b>10.04</b>	1.41	1.37	<b>1.39</b>
<b>200 hrs</b>	6.73	6.63	6.66	<b>6.67</b>	14.09	13.88	14.10	<b>14.02</b>	1.90	1.86	<b>1.88</b>
<b>300 hrs</b>	7.70	7.97	7.86	<b>7.84</b>	17.64	18.21	17.34	<b>17.73</b>	3.35	3.38	<b>3.365</b>

**Test Results (Average  $\Delta E$ ) - Data Collected Over 100 Hour Increments (cont'd)**



**$\Delta E$**  - Measure of fading within a specified amount of time for each sample tested  
 - 0 hr: data collected before sample exposed to UV light  
 - 200 hrs: fading below 1.5 at 200 hrs is (by standard) indicative of a fade-resistant product

*Fading Reference Ranges*

Fading ( $\Delta E$ )	Observable Changes
0~0.1	No noticeable change in color saturation
0.2~0.4	Slight noticeable change in color saturation
0.4~0.8	Noticeable change in color saturation
0.8~1.5	Noticeable change in hue
1.5~3.0	Obviously noticeable change in hue, deviance from original color
3.0~12.0	Noticeable deviance from original color
12.0~	Complete deviance from original color

**Conclusion**

Coated **sTM** Control Film is more resistant to fading than DYE-PET films (3M and LLumar)

*No matter what you drive*

	4 Years Warranty	Life Time Warranty
18" X 100'	63.00 \$	70.00 \$
20" X 100'	70.00 \$	80.00 \$
24" X 100'	78.00 \$	90.00 \$
30" X 100'	102.00 \$	116.00 \$
36" X 100'	117.00 \$	135.00 \$
40" X 100'	133.00 \$	155.00 \$

### Life Time Warranty Films

- |               |                   |
|---------------|-------------------|
| 1 ply CCS 75% | 2 ply CCS 05%     |
| 2 ply CCS 35% | 2 tone Silver 35% |
| 2 ply CCS 20% | 2 tone Silver 19% |
|               | 2 tone Silver 05% |

### 4 Years Warranty Films

- 1 ply CCS 50%
- 1 ply CCS 35%
- 1 ply CCS 20%
- 1 ply CCS 05%

