



**PT-1512**

**Customer:** Decoboard  
**City, State:**  
**Originator:** Neil Tinoco

**Process Date:** 6/4/2009  
**Date Received:** 6/4/2009  
**Date Completed:** 6/15/2009

**Description:** see below

1) Particle Board with combination of UV sealer, WB Basecoat, printing ink and UV Topcoat

| ASTM D3359 Method A – X Scribe Tape Adhesion |                |
|--|----------------|
| Panel  | Classification |
| 1  | 5A             |

X Scribe Adhesion Scale – Method A

- 5A No peeling or removal.
- 4A Trace peeling or removal along incisions or at their intersection
- 3A Jagged removal along incisions up to 1/16 in. (1.6 mm) on either side
- 2A Jagged removal along most of incisions up to 1/8 in. (3.2 mm) on either side.
- 1A Removal from most of the area of the X under the tape
- 0A Removal beyond the area of the X

| ASTM D3359 Method B – Cross Hatch Tape |                |
|--|----------------|
| Panel                                  | Classification |
| 1                                      | 4B             |

Cross Hatch Adhesion Scale - Method B

- 5B 0% Loss
- 4B < 5% Loss
- 3B 5-15% Loss
- 2B 15-35% Loss
- 1B 35-65% Loss
- 0B > 65% Loss

| Taber Abraser ASTM D4060-95 CS-17 500 grams |                                  |                                 |                   |                                       |            |  |                              |                     |
|---|----------------------------------|---------------------------------|-------------------|---------------------------------------|------------|--|------------------------------|---------------------|
|   | Weight Before abrasion miligrams | Weight after abrasion miligrams | Weight Loss in mg | Number of cycles of abrasion recorded | Wear Index | Number of cycles required to wear through to substrate | Thickness of coating in mils | Wear Cycles Per Mil |
| Panel 1A                                    | 143813                           | 143775                          | 38                | 777                                   | 49         | 777  | 1.63                         | 477                 |
| Panel 1B                                    | 141308                           | 141260                          | 48                | 566                                   | 85         | 566  | 1.63                         | 347                 |
| <b>Average:</b>                             |                                  |                                 |                   |                                       | <b>67</b>  |  | <b>Average:</b>              | <b>412</b>          |

| Taber Abraser ASTM D4060-95 CS-17 1000 grams |                                  |                                 |                   |                                       |            |  |                              |                     |
|--|----------------------------------|---------------------------------|-------------------|---------------------------------------|------------|--|------------------------------|---------------------|
|  | Weight Before abrasion miligrams | Weight after abrasion miligrams | Weight Loss in mg | Number of cycles of abrasion recorded | Wear Index | Number of cycles required to wear through to substrate | Thickness of coating in mils | Wear Cycles Per Mil |
| Panel 1A                                     | 140410                           | 140377                          | 33                | 314                                   | 105        | 314  | 1.63                         | 193                 |
| Panel 2A                                     | 138566                           | 138535                          | 31                | 301                                   | 103        | 301  | 1.63                         | 185                 |
| <b>Average:</b>                              |                                  |                                 |                   |                                       | <b>104</b> |  | <b>Average:</b>              | <b>189</b>          |

| Average Film Thickness |           |
|------------------------|-----------|
| Panel                  |           |
| 1                      | 1.63 mils |

| Pencil Hardness |        |
|-----------------|--------|
| Panel           | Passed |
| 1               | H      |

| Belmar Resistance |        |
|-------------------|--------|
| Panel             | Passed |
| 1                 | 7 Kg   |

| Solvent Rubs (MEK 200 Rubs) |        |
|-----------------------------|--------|
| Panel                       |        |
| 1                           | Passed |

| Hoffman Scratch |        |
|-----------------|--------|
| Panel           | Passed |
| 1               | 200 g  |

| Water Spot |           |           |
|------------|-----------|-----------|
| Panel      | X-Scribe  | Normal    |
| 1          | No Effect | No Effect |

| ANS/KCMA Chemical Resistance |              |
|------------------------------|--------------|
| Sample Description           | Door 1       |
| Vinegar                      | No Effect    |
| Lemon Juice                  | No Effect    |
| Orange Juice                 | No Effect    |
| Grape Juice                  | No Effect    |
| Catsup                       | No Effect    |
| Hot Coffee                   | No Effect    |
| Olive Oil                    | No Effect    |
| Vodka                        | No Effect    |
| 0.5% Detergent Soln.         | No Effect    |
| Mustard (1 Hour)             | Yellow Stain |
| Mustard Recovery (14 days)   | Recovered    |

6/11/2009  
6/15/2009

| ANS/KCMA Hot and Cold Check Resistance – 5 Cycles |               |            |           |
|---|---------------|------------|-----------|
| Door  | Discoloration | Blistering | Checking  |
| 1   | No Effect     | No Effect  | No Effect |

| ANS/KCMA Shrinkage and Heat Resistance (Humidity) – 24 hours |             |               |            |           |
|--|-------------|---------------|------------|-----------|
| Door   | Description | Discoloration | Blistering | Checking  |
| 1  | Edge        | No Effect     | No Effect  | No Effect |

**PT-1512  
Decoboard  
Film Thickness  
Panel I**



**Average Film Thickness = 1.63 mils**

**5X**