# Key Banner - 13 oz

## Features and Applications:

Key Banner is a white, opaque, front-lit banner. It is both tear and fade resistant, and is specially formulated to resist curling. Key Banner is available in both a matte and gloss finish. This smooth, scrim banner is weather resistant and printable with solvent and UV inks. Roll widths from 30" to 196"" are available. Key Banner is listed on HP/Scitex's approved media list.

## Specifications:

The following information on the physical and chemical characteristics of this product is based on tests believed to be reliable. The values are provided solely as a source of information. This information is given without a guarantee and does not establish a warranty. It is the responsibility of the purchaser/user to determine, prior to use, if this product is suitable for his/her use.

| Properties | Test Method | Unit | Result |
|---|---|---|---|
| Transmittance | ASTM E 424 6.5.2 | % | 13.7 |
| Tensile Strength | ISO 13934-1:1999 C.R.E. Cut Strip Method | KGF/5CM | L: 90.1 W: 89.3 |
| Tearing Strength | ISO 13937-2:2000 C.R.E. Cut Strip Method | KGF | L: 7.1 W: 5.0 |
| Elongation | ISO 13934-2:2000 C.R.E. Cut Strip Method | % | L: 14.9 W: 31.2 |
| Adhesion Strength | ISO 2411.C.R.R | KGF/5CM | 13.2 |
| Flexing Endurance at Low Temp | DIN53351 | Cycles | 17000 |
| Resistance to Low Temp | DIN53351 | | -20 degrees C |
| Resistance to High Temp | DIN53351 | | 80 degrees C |
| Resistance to Weathering | ASTM G26, Xenon ARClamp, 18 min Spray/2 hr, 100 hr exp | | No Change |
| Practice for operating light-exp, with and without water | ASTM G26, Method A, Type B Weather-O-Meter | Grade | 4 |
| Fire Resistant | Fire Test NFPA 701 | | Approved |

# TEST REPORT

APPLICANT : GRIMCO

| | |
|---|---|
| REPORT NO. | : H216-10-00019 |
| SAMPLE RECEIVED DATE | : 2010-01-05 |
| TEST STARTED DATE | : 2010-01-05 |
| REPORT ISSUED DATE | : 2010-01-11 |
| PAGE | : 1 OF 3 |
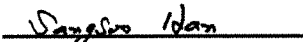
SAMPLE DESCRIPTION : TWO(2) PIECES OF SUBMITTED CUTTING SAID TO BE SHEET.

=======================================================================================

ITEM : #1 KEY BANNER 13OZ FRONTLIT, #2 KEY BANNER 15OZ BLOCKOUT

=======================================================================================

TEST CONDUCTED : AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE SEE ATTACHED PAGES.

=======================================================================================

PREPARED AND CHECKED BY
FOR FITI

SANG SOO, HAN
QUALITY MANAGER

AUTHORIZED BY
FOR FITI

MOON-OK NOH
EXECUTIVE DIRECTOR

TEST CONDUCTED                                          TEST RESULT
========================================================================================

(01) FLAMMABILITY ( NFPA 701 TEST-1(2004) )

#1

| SAMPLE NO. | WEIGHT(g) | | WEIGHT LOSS(%) | AFTER FLAME TIME(s) | DRIP BURN(s) |
|---|---|---|---|---|---|
| | ORIGINAL | AFTER TEST | | | |
| 1 | 26.2 | 24.2 | 7.6 | 0.0 | 0.0 |
| 2 | 26.1 | 24.6 | 5.7 | 0.0 | 0.0 |
| 3 | 26.2 | 24.1 | 8.0 | 0.0 | 0.5 |
| 4 | 26.1 | 24.2 | 7.3 | 0.0 | 0.0 |
| 5 | 26.1 | 24.3 | 6.9 | 0.0 | 0.5 |
| 6 | 26.1 | 24.4 | 6.5 | 0.0 | 0.5 |
| 7 | 26.2 | 25.1 | 4.2 | 0.0 | 0.0 |
| 8 | 26.2 | 24.3 | 7.3 | 0.0 | 0.0 |
| 9 | 26.1 | 24.6 | 5.7 | 0.0 | 0.5 |
| 10 | 26.2 | 24.3 | 7.3 | 0.0 | 0.5 |
| AVG. | 26.2 | 24.4 | 6.7 | 0.0 | 0.3 |

NOTE) · CONCLUSION : BASED UPON THE RESULTS OF THE TEST REPORT, THE SUBMITTED SAMPLE MEETS
          THE PERFORMANCE REQUIREMENT AS STATED IN NFPA 701 TEST-1(2004).
      · PERFORMANCE CRITERIA FOR TEST 1

| DRIP BURN(s) | WEIGHT LOSS(%) | NO INDIVIDUAL SPECIMEN'S WEIGHT LOSS EXCEED THE MEAN VALUE PLUS 3 STANDARD DEVIATION 10.1 (STANDARD DEVIATION = 1.14) |
|---|---|---|
| AVG. : LESS THAN 2 | AVG. : LESS THAN 40 | |

      · TEST WAS CONDUCTED ONLY IN THE ORIGINAL STATE BY THE CLIENT'S REQUEST.

**FiCi** Testing & Research Institute | 892-64 Jegi2-dong, Dongdaemun-gu, Seoul, Korea, 130-864
Tel:+82-2-3299-8006/9 Fax:+82-2-3299-8150/1
www.fiti.re.kr

TEST CONDUCTED                        TEST RESULT

================================================================================

(01) DITTO

#2

| SAMPLE NO. | WEIGHT(g) | | WEIGHT LOSS(%) | AFTER FLAME TIME(s) | DRIP BURN(s) |
|---|---|---|---|---|---|
| | ORIGINAL | AFTER TEST | | | |
| 1 | 30.2 | 28.6 | 5.3 | 0.0 | 0.5 |
| 2 | 30.2 | 29.1 | 3.6 | 3.5 | 0.0 |
| 3 | 30.3 | 28.7 | 5.3 | 0.0 | 0.5 |
| 4 | 30.3 | 28.8 | 5.0 | 2.0 | 0.0 |
| 5 | 30.2 | 28.5 | 5.6 | 1.5 | 0.5 |
| 6 | 30.1 | 29.1 | 3.3 | 2.5 | 1.0 |
| 7 | 30.2 | 29.4 | 2.6 | 0.0 | 0.0 |
| 8 | 30.3 | 29.0 | 4.3 | 1.0 | 0.0 |
| 9 | 30.3 | 28.8 | 5.0 | 3.5 | 0.0 |
| 10 | 30.2 | 28.4 | 6.0 | 2.0 | 0.5 |
| AVG. | 30.2 | 28.8 | 4.6 | 1.6 | 0.3 |

NOTE) · CONCLUSION : BASED UPON THE RESULTS OF THE TEST REPORT, THE SUBMITTED SAMPLE MEETS
                THE PERFORMANCE REQUIREMENT AS STATED IN NFPA 701 TEST-1(2004).
   · PERFORMANCE CRITERIA FOR TEST 1

| DRIP BURN(s) | WEIGHT LOSS(%) | NO INDIVIDUAL SPECIMEN'S WEIGHT LOSS EXCEED THE MEAN VALUE PLUS 3 STANDARD DEVIATION 7.8 (STANDARD DEVIATION = 1.08) |
|---|---|---|
| AVG. : LESS THAN 2 | AVG. : LESS THAN 40 | |

   · TEST WAS CONDUCTED ONLY IN THE ORIGINAL STATE BY THE CLIENT'S REQUEST.

================================================================================

SAMPLE ; #1                   #2