

## MACal® 9722-00 PRO Light Stop

### PRODUCT DESCRIPTION

MACal 9722-00 PRO is a vinyl 100 % opaque coated with a long-life durable, highly cohesive acrylic pressure sensitive adhesive, which is protected with a high quality siliconized kraft paper.

#### Face material:

Totally opaque white film, 140 µm thick, cadmium-free, with a matt finish which prevents light reflection.

#### Adhesive:

Acrylic based pressure-sensitive, very cohesive and extremely durable.

#### Liner:

Highly stable 135 gsm bleached kraft paper printed with MACal 9700 PRO logo in blue.

### TYPICAL USE

MACal 9722-00 PRO Light Stop can be used for light box applications (in combination with MACal 9700 PRO colours and MACal 9700 PRO Light Diffusers). This film stops the light going through and allows special effects when the light box is lit.

### PROCESSING

Computer cutting

Clean, efficient, trouble-free cutting with most plotters. Adjustment of the depth of the cutting tool is important, as too deep a cut into the liner could result in the paper splitting when transferred onto the Application Tape.

### SHELF LIFE

2 years when stored at 15 to 25°C and ± 50 % relative humidity (in the original packaging).

### APPLICATION METHOD

The transfer of the cut vinyl onto the application tape should always be performed by removing the liner from the pressure-sensitive material (i.e. with the PVC face downwards onto the working surface) and not by lifting off the application aape.

### IMPORTANT REMARK

All surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination. The compatibility of paints and lacquers should be tested by the end-user, prior to use.

Care should be taken when selecting a substrate for use in illuminated devices with self-adhesive materials. Some substrates, e.g. polycarbonate could degas and create 'bubbling' defects.

It is, therefore, recommended to conduct compatibility trials between MACal 9722-00 PRO

Light Stop and the application surface before making large jobs.

### PHYSICAL PROPERTIES (TYPICAL VALUES)

Face Material Data, 23°C      Average values      Test method

|                            |      |               |
|----------------------------|------|---------------|
| Tensile strength (kN/15mm) | >1.1 | DIN ISO 527-3 |
| Elongation at break (%)    | >100 |               |

#### Thickness

|                           |     |         |
|---------------------------|-----|---------|
| Face film + adhesive (µm) | 175 | ISO 534 |
|---------------------------|-----|---------|

#### Adhesive data, 23°C (N/25 mm)

|                                |    |       |
|--------------------------------|----|-------|
| Peel on mirror Stainless Steel |    | FTM 1 |
| 20 minutes                     | 14 |       |
| 24 hours                       | 20 |       |
| 1 week                         | 24 |       |

#### Dimensional stability

|  |             |        |
|--|-------------|--------|
| Shrinkage<br>(1 week at 70°C applied on aluminium) | Max. 0.7 mm | FTM 14 |
|--|-------------|--------|

#### Flammability

|                             |                    |          |
|-----------------------------|--------------------|----------|
| Sample mounted on aluminium | self-extinguishing | ISO 3795 |
|-----------------------------|--------------------|----------|

#### Temperature ranges

|                                  |                  |
|----------------------------------|------------------|
| Minimum application temperature  | 10°C             |
| Service temperature range of use | - 40°C to + 90°C |

### EXPECTED DURABILITY

Central Europe Zone 1

|             |         |            |
|-------------|---------|------------|
| Unprocessed | 7 years | ISO 4892-2 |
|-------------|---------|------------|

Note : Exposure to severe temperatures, ultraviolet light, and/or conditions in Southern European countries, tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitudes and south-facing exposure. No durability warranty is given for horizontal exposure.

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