

MACal[®] 9722-00 PRO Light Stop

Technical Data Sheet

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.

CONSTRUCTION

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 USES

The 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.

DURABILITY

7 years.

These use-life estimates are based upon accelerated ageing studies and outdoor exposure, under conditions experienced in vertical exposure and in "normal" temperate climates.

Note : Exposure to severe temperatures, ultraviolet light or conditions in southern European countries, as well as in tropical, sub-tropical or desert regions, will cause a more rapid deterioration. This also applies to polluted areas, high altitude and south-facing exposure.

SHELF LIFE

2 years when stored at 15 to 25°C and ± 50 % relative humidity.

PHYSICAL PROPERTIES (Average values)

Thickness mm (Film + adhesive) ASTM D-645
0.175

Face Material Data, 23°C DIN 53455

Tensile strength : ≥ 1.10 kN/m

% Elongation at break : ≥ 100

Adhesive Data, 23°C ASTM D-903

Peel adhesion 180° on stainless steel (kN/m)

- 30 min. residence : 0.55

- 1 week residence : 0.80

Dimensional stability

% Shrinkage (48 hours at 70°C) : ≤ 0.5
(25 cm x 25 cm, sample mounted on aluminium).

Temperature ranges :

Application : + 10°C to + 40°C

End-use : - 40°C to + 90°C

N.B. : for lower temperatures, please consult us.

Flammability

ISO 3795

Sample mounted on aluminium : self-extinguishing.

Solvent and chemical resistance

Resistant to most oils and greases, fuel, aliphatic solvents, weak acids, salts and alkalis.

Important notice

Care should be taken when selecting a substrate for use in illuminated devices with self-adhesive materials. Some substrates, e.g. polycarbonate, can cause problems because of "bubbling".

It is, therefore, recommended that trials be conducted to establish the compatibility of the MACal 9722-00 PRO Light Stop with the application surface.

PROCESSING

Cad-Cam converting

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.

Application

Application of MACal 9722 PRO Light Stop is made easier if MACtransfer Application Tape is used.

IMPORTANT NOTICE

All MACTac products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects.

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