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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

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.

EXPECTED DURABILITY

The expected vertical outdoor durability of the unprocessed product in central Europe (Zone 1) is up to:

7 years

This information is based on successful real life experience and artificial aging according to ISO 4892-2.

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, horizontal 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 ISO 527-3
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) : ≤ 0.7mm

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 could degas and create 'bubling' defects.
It is, therefore, recommended to conduct compatibility trials between MACal 9722-00 PRO Light Stop and the application surface before making large jobs.

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.
Published information concerning MACtac products is based upon research which the Company believes to be reliable although such information does not constitute a warranty.
Because of the variety of uses of MACtac products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. The seller shall not be liable for damages in excess of the purchase price of the product nor for incidental or consequential damages.
All specifications are subject to change without prior notice.