



MACscreen®

Product data : MACal® 6952 Ultra Destructible

DESCRIPTION

Face stock :

Gloss white cast vinyl, ~ 50 µm, ultra-destructible, cadmium free

Adhesive : Permanent high-performance, acrylic based.

Liner : Coated Kraft paper, ca. 140 g/m² :
Security 13 (without breaklines)

Laminate (Film + adhesive)

Caliper : ca. 180 µm ASTM D 645

PHYSICAL AND CHEMICAL CHARACTERISTICS (TYPICAL VALUES)

Peel adhesion 180° on stainless steel :

Adhesion exceeds internal strength resulting in instantaneous destruction ASTM D 903

Dimens. stability (applied) : < 0,2 % FTM 14, alu

Face material data :

Tensile strength : 1,0 kN/m DIN 53455

Elongation at break : < 5 % DIN 53455

Temperature range :

Min. application temperature : + 10° C

Service temperature range : - 50° C to + 110° C

Flammability : Self-extinguishing ISO 3795

Solvent resistance : good properties.

Applied to stainless steel, exposed to : oils, greases, aliphatic solvents, alcohols.

Petrol resistance : good properties.

Repeated (each 10 min.) petrol spraying.

Chemical resistance : No effect.

Mild acids. Mild alkalis.

Shelf life : stored at 50 ± 10 % RH at 15 - 25° C.

2 years for as long as the material is being stored in its original packaging.

Durability : 3 years.

Middle European exposure conditions, vertical exposure.

Exposure to severe humidity, ultra-violet light or conditions found in tropical, subtropical or desert regions will cause more rapid deterioration than under conditions existing in "normal" temperate climates.

PRINTING METHODS

Screen printing.

For UV Offset or conventional offset, please contact your ink supplier.

In order to retain the tamper resistant properties, full coverage and/or the use of inks containing high boiling point solvents should be avoided.

During printing, it is important that drying is carefully exercised to ensure removal of printing inks solvents since certain solvents if retained can lead to plastification problems with subsequent application troubles and poor weathering properties.

We recommend to maintain an unprinted area of 3-4 mm on the edges of the printed decal to avoid edge lifting.

APPLICATIONS AND USES

MACal 6952 is an excellent material for use in the production of specialty markings where tamper resistance or complete destruction upon removal is required e.g. safety and instruction labels.

GENERAL REMARK : factors affecting adhesion

Adhesion failure problems can be avoided by :

- *Where possible, always test the proposed construction under actual application and end-use conditions because a 100 % multi-purpose adhesive for all substrates does not exist.*
- *Being familiar with factors which adversely affect adhesion :*
- *Labels or stickers should not be applied onto dusty, dirty, oily or oxidized surfaces.*
- *Mould release agents on blow-moulded plastic surfaces inhibit adhesion.*
- *Adhesion failure may occur on substrates with low surface tension, such as polyethylene or polypropylene.*
- *Avoid the use of relatively rigid facestocks on highly curved or small diameter surfaces.*
- *Do not use pressure sensitive materials outside the recommended service temperature range, or do not apply below the minimum application temperature.*