



MACal®480 GreenScreen P

Technical Data Sheet

DESCRIPTION

Phthalates & Chlorine free construction complying to REACH regulations

Face stock :

Polyolefin film (chlorine free) 100 µm, cadmium-free, gloss finish, top coated.

MACal GreenScreen 4827 P Gloss White

Adhesive : Permanent, acrylic water based.

Liner : Coated Kraft paper, ca. 135 gr/sqm.
Security 13 (without breaklines).

Laminate : ca. 265 gr/sqm.

PHYSICAL AND CHEMICAL CHARACTERISTICS

Quick tack : 13 N/25 mm FTM 9, on glass

Peel 20 min. : 10 N/25 mm FTM 1, on glass

Peel 24 h. : 13 N/25 mm FTM 1, on glass

Resistance to shear : > 50 h FTM 8, on glass

Dimensional stability (applied) :
max. 1.0 % FTM 14, alu

Dimensional stability on the backing paper (unapplied) :
max. 0.5 % Measured after 72 h at 60°C

Temperature range :

Minimum application temperature : + 5°C
Service temperature range : - 20°C to + 70°C

Toy labelling : in compliance with EN 71/3

Marine test BS5609 : passed.

Chemical Resistance:

Resistant to water and detergents.
Also resistant to most diluted acids and alkalis.
Not affected by short contact with most of aliphatic hydrocarbons and alcohol.
Not recommended for use in contact with aromatic and chlorinated hydrocarbons.

For further technical advice, please consult with MACTac.

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 : 2 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, please contact your ink supplier.

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.

During cutting operations, use clean, sharp and undamaged knife blades.

For solvent digital printing, we recommend the use of MACTac IMAGin JT 5000 products.

APPLICATIONS AND USES

Stickers for advertising and promotional campaigns, emblems and printed labels for environmental friendly in- and outdoor use.

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. Rubber based adhesives stick better to low energy surfaces than acrylics.*
 - *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.*