

MAClite 4700

PRODUCT DESCRIPTION

MACLite 4700 is a commercial grade reflective film of beaded technology, providing wide-angle reflectivity of incident light and giving excellent night and day visibility. Given its up to 3 year outdoor durability, it is a cost-efficient choice for advertisements, emergency and highway maintenance vehicles and non-critical reflective signs. MACLite 4700 is available in multiple colours and the White Digital product is digitally printable.

Face Material: High gloss retroreflective film with glass microspheres:

White Digital: PVC/PET face film

Colours: PET/acrylics face film

Adhesive: Permanent pressure sensitive adhesive.

Liner: 150 gsm, one side polyethylene-coated white kraft paper.

TYPICAL USE

MACLite 4700 is designed for 24h a day eye-catching decoration and identification in advertisements, highway maintenance vehicles and non-critical reflective signs. MACLite 4700 can be applied on flat surfaces.

PROCESSING

MACLite 4700 offers excellent weeding and cutting performance on a wide range of computer sign making equipment. All products can be screen printed and the White Digital product can be used on all digital printing platforms. However, a print test prior to application is strongly recommended. Print profiles are available for the White Digital product on most common printing platforms (Latex, UV, Solvent, Eco-Solvent).

MACLite 4700 does not require edge sealing.

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.

SHELF LIFE

1 year from date of purchase when stored at 20 to 25°C and ± 50-55% relative humidity.

PHYSICAL PROPERTIES (TYPICAL VALUES)

Average Values Test Method

Thickness		
Face film, White Digital (µm)	127-178	ISO 534
Face film, Colours (µm)	127-178	ISO 534
Adhesive data (N/inch)		
Peel on stainless steel		FINAT FTM-1
Initial	24.5	
24 hours	26.3	
Dimensional stability		
Shrinkage (48 hours at 70°C applied on Aluminium)	< 0.9mm	FINAT FTM-14
Temperature ranges		
Application (°C)	18	
Service (°C)	- 23°C to + 65°C	
Solvent and chemical resistance		
Water	No Effect	24 hours immersion
Detergent	No Effect	24 hours immersion
Gasoline	No Effect	1 hour immersion

EXPECTED DURABILITY

White Digital, Blue, Red: Up to 3 years outdoor durability (vertical exposure)

Orange: Up to 2 years outdoor durability (vertical exposure)

Yellow: Up to 1 year outdoor durability (vertical exposure)

Minimum Coefficient of Retroreflection (RA) (cd/lx/m²)

Observation Angle α	0.2°	0.33°
Entrance Angle β_1 ($\beta_2=0$)	-4°	30°
MACLite 4729-00 White Digital	50	6
MACLite 4709-00 Yellow	25	3
MACLite 4759-00 Red	8	1
MACLite 4739-00 Blue	3	0.5

MAClite 4701-00 Orange	12	1.5
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DISCLAIMER

For more information on the durability and exposure please visit the “Mactac Technical Bulletin TB 7.5 Outdoor Durability of Mactac Graphics - Self-adhesive films” on the [www.https://www.mactacgraphics.eu](http://www.mactacgraphics.eu) website.

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