

MACal® 8128 / 8129 / 8199 – REMOVABLE

PRODUCT DESCRIPTION

Soft calendered PVC films, ~ 100 µm, cadmium-free, dull or gloss finish.

This serie is available in Dull White (Macal® 8128), Gloss White (Macal® 8129), and Gloss Clear (Macal® 8199).

Face Material: Monomeric calendered PVC films, 100 micron

Adhesive: Removable acrylic water based

Liner: Coated Kraft paper, 140 g/m²; Macline liner available (with mechanically scored breaklines 6,2 cm apart)

TYPICAL USE

Stickers for advertising and promotional campaigns, emblems and printed labels for in- and outdoor use. NB : Wet method for the application of large printed decals is not recommended.

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 ubstrates 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

PROCESSING

Screen printing / UV Offset. For conventional 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. For solvent digital printing, we recommend the use of MACTac IMAGin JT 5000 products.

SHELF LIFE

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

Stored at 50 ± 10 % RH at 15 - 25°C.

PHYSICAL PROPERTIES (TYPICAL VALUES)

Average Values Test Method

Thickness (micron)		
Film + Adhesive	105	ISO 534
Adhesive data, 23°C (N/25 mm)		
Peel adhesion 180° on glass		
- 20 min. residence	3	FTM1
- 24 hour residence	5	FTM1
Quick Tack (N)	5	FTM9 on glass
Resistance to shear (Hours)	>3	FTM8 on glass
Dimensional stability		
Shrinkage (1 week at 70°C applied on Aluminium)	max 1,5 mm	FTM14
Temperature ranges		
Application (°C)	+5	Minimum
End-use (°C)	-20 to +70	
Flammability		
Sample mounted on aluminium	Self-extinguishing	ISO 3795
Toy labelling		
	in compliance with EN 71/3	
Solvent and chemical resistance		
Solvent resistance	Resistance to most: oils, greases, aliphatic solvents, alcohols	
Petrol resistance	Resistant to short limited contacts. If extended contact, edge-lifting will occur	
Chemical resistance	Resistant to most mild acids, mild alkalis	

EXPECTED DURABILITY

The expected vertical outdoor durability of the unprocessed product in central Europe (Zone 1) is up to: 2 years. This information is based on successful real life experience and artificial aging according to ISO 4892-2. 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.

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