

MACal[®]8128 / 8129 / 8199 – PERMANENT

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 transparent (Macal® 8199).

Face Material: Monomeric calendered PVC film, 100 micron

Adhesive: Permanent, acrylic water based

Liner: Coated Kraft paper, 140 g/m² available in plain or with breaklines (mechanically scored breaklines 6,2 cm apart)

TYPICAL USE

Stickers for advertising and promotional campaigns, emblems and printed labels for 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

PROCESSING

Screen printing / UV Offset. 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

	Ave	rage values	s lest Method	
Thickness				
Film + Adhesive	105		ISO 534	
Adhesive data, 23	°C (N/	25 mm)		
Peel adhesion 180°	on st	ainless steel		
- 20 min. residence		8	FTM1 on glass	
- 24 hour residence		15	FTM1 on glass	
Quick tack (N)		12	FTM9 on glass	
Resistance to shear (Hours)		>30	FTM8 on glass	
Dimensional stab	ility			
Shrinkage (1 week at 70°C applied on Aluminium)	max 1,5 mm		FTM14	
Temperature rang	jes			
Application (°C)	+5		Minimum	
End-use (°C)	-20 to +70			
Flammability				
Sample mounted on aluminium	Self- extin	guishing	ISO 3795	

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	Resisitant 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 a more rapid deterioration than under conditions existing in "normal" temperate climates.

DISCLAIMER

For more information on the durability and exposure please visit the "Mactac Technical Bulletin TB 7.5 Outdoor Durability of Mactac Graphics - Selfadhesive films" on the

www.https://www.mactacgraphics.eu website.

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