

## MACal® 8129 – HIGH TACK N

### PRODUCT DESCRIPTION

Soft calendered PVC films, ~ 100 µm, cadmium-free, dull or gloss finish. This serie is available in Gloss White ( MACal® 8129).

**Face Material:** Monomeric calendered PVC films, 100 micron

**Adhesive:** High tack permanent acrylic solvent based adhesive

**Liner:** Coated Kraft paper, 140 g/m<sup>2</sup>, without breaklines

### TYPICAL USE

Promotional labels and stickers for in- and outdoor use. Further applications for tough applications and substrates.

**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. 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	130	ISO 534
Adhesive data, 23°C (N/25 mm)		
Peel adhesion 180° on glass		
- 20 min. residence	31	FTM1
- 24 hour residence	35	FTM1
Quick tack	23	FTM9 on glass
Resistance to shear (Hours)	>140	FTM8 on glass
Dimensional stability		
Shrinkage (1 week at 70°C applied on Aluminium)	max 1,1 mm	FTM14
Temperature ranges		
Application (°C)	+10	Minimum
End-use (°C)	-20 to +70	
Flammability		
Sample mounted on aluminium	Self-extinguishing	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	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 1 year for Clear films and up to 2 years for Opaque films.

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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