

Product Description

myMEDIA 1829 Hot'n'Ice is a polymer plasticized, self-adhesive special vinyl film for use on flat or slightly curved surfaces with a silky gloss surface. The film is coated with a clear, semi-permanent, solvent-based special adhesive and has been specially developed for outdoor applications that are applied in extreme cold or heat from -15°C to +50°C and require good temperature resistance. It can be printed excellent in digital printing with Latex, Eco-solvent, Solvent and UV-curing inks as well as in UV-Offset and Screen Printing. The film can be applied both dry and wet. The product fulfils B1 according to DIN 4102-1.

Physical Characteristics

Front material	Polymeric plasticized calendered Special-PVC film		
Thickness / Weight	100 µm		
Colour / Finish	White, satin		
Adhesive	Special solvent acrylic, semi-permanent		
Liner	PE-coated release paper, 125 g/m ²		
Durability	Up to 5 years unprinted (vertical exposure, climate zone 1)		
Application temperature	-15°C to +50°C (cold temperatures related to smooth substrates, otherwise test required)		
Temperature range	-40°C to +80°C		
Adhesion	8 N/25 mm 15 N/25 mm	(after 20 minutes) (after 24 hours)	Finat FTM 1 (on stainless steel)
Dimensional stability	<0,4 mm shrinkage		on stainless steel
Tensile strength	> 19 MPa (machine)	> 19 MPa (cross)	DIN EN ISO 527
Elongation	> 130 % (machine)	> 150 % (cross)	DIN EN ISO 527
Fire behaviour	B1		DIN 4102-1 (on stainless steel)

Storage

Shelf life	1 years if stored in original packaging
Storage conditions	+15°C to +22°C and 50 - 55% relative humidity

Printing Method

Compatible inks	HP Latex, Eco-Solvent, Solvent, UV-curable
Drying	The digital print must be ABSOLUTELY DRY! We recommend to dry for at least 48 hours prior to further processing in unwounded condition. If this is not possible the roll should be dried loosely wined in upright position on an air permeable (grid) floor to ensure air circulation. Insufficient drying may result in curling, shrinkage and insufficient adhesion which excludes any warranty. Therefore the drying has to be checked with practical methods like Tesatest (optimal with cross section), grab test, abrasion test and/or smell test prior to further processing and application.

Processing and converting

Recommended surfaces	Flat to very slightly curved, smooth to slightly structured surfaces Substrate must be dry and free of dust and grease
Application method	Dry or wet application
Wet application	- only on absolutely smooth and even surfaces - preferably warm season and dry weather - application temperature above 20°C (due to evaporation of residual moisture) - all water must be squeezed out totally - protect application from strong moisture for at least 24 hours - after installation, firmly press edges and borders again
Lamination	Cold lamination Roller temperature ≤ 30°C, lamination without tension
Recommended laminates	myMEDIA 1200 PolyVinyl Clear Gloss, myMEDIA 1210 PolyVinyl Clear Matt

myMEDIA 1829 Hot'n'Ice

Removability

Removability	Up to 6 months
Substrate and surface	The properties and conditions of the substrate are essential for the removability! The surface has to be consistent with a high cohesiveness. Certain substances could interact with each other e.g. diffusion of plasticizers, or fumigation of solvents or flowing gas. This could cause the adhesion to increase from removable self-adhesive products and impedes a residue free removal of the film. The following surfaces could be affected from the above mentioned reciprocal effects: - ABS - Acrylic Glass - Freshly painted areas and varnish - Nitro Lacquer - Polycarbonate - Polystyrene - Various PVC
Removability conditions	+10°C to +30°C (surrounding and surface temperature) Remove the film slowly and smoothly at a flat angle.

Cleaning

Cleaning agents	Cleaning agents that do not contain solvents or ammonia. Clean windows only with soap and water. Wash-up thoroughly and let the glass dry.
-----------------	--

Advantages and features

- Application in heat and extreme cold (-15°C to +50°C)
- easy application and removal (up to 6 months residue-free)
- Dry and wet application possible
- excellent print quality
- excellent temperature resistance
- excellent dimensional stability (100 µm)
- suitable for outdoor use for up to 5 years
- meets fire rating B1 according to DIN 4102-1

Applications

- Applications at extreme temperatures
- Large format indoor and outdoor applications
- Fixed bodies, trailers, semi-trailers
- Company signs, information boards
- Shop decoration, shop window advertising, POS
- Events
- Lettering (also on metal and smooth concrete)

Important Notice

Information on physical and chemical characteristics is based upon tests, practical knowledge and experience. The values listed herein are typical values and are not for use in specifications. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Because of the variety of uses and applications, the purchasers should independently determine, prior to use, the suitability of this material to their specific use and carefully consider the suitability and performance of the product. The purchaser shall assume all risks for any use and application of the material. All specifications and technical data are subject to change without prior notice, errors and omissions expected. All warranty matters are regulated by our general terms and conditions.