



POLI-ETCH 5059 Crystal Frosty Air Free

Technical Data

Carrier:	Polymeric PVC film, highly stabilized, calendered	
Thickness:	80 μ	(ISO 4593)
Adhesive:	Clear, micro-structured Solvent Acrylic, permanent	
Adhesion:	7,5 N/cm	(Finat FTM 1, after 24 hrs. on Stainless steel)
Dimensional stability:	Shrinkage < 0,2 mm	(Finat FTM 14)
Liner:	two sided PE-coated Silicone paper (145 g/m ²)	
Tensile strength md:	> 20 MPa	(DIN EN ISO 527)
Tensile strength cd:	> 20 MPa	(DIN EN ISO 527)
Elongation md:	> 170 %	(DIN EN ISO 527)
Elongation cd:	> 170 %	(DIN EN ISO 527)
Application temperature:	> + 10 °C	
Temperature resistance:	-40 °C – +90 °C	
Outdoor resistance:	5 – 7 years (unprinted material, vertical outdoor exposure, central European normal climate)	

Safety Data Sheet

When used under normal conditions, this product does not generate or release any dangerous substances or hazardous chemicals. This is a non-hazardous product in accordance with the current GefStoffV and EU criteria. Therefore it is not necessary to prepare a Material Safety Data Sheet for this product. The Safety Data Sheet serves only to comply with the regulation to supply information in accordance with REACH Regulation (EC) No. 1907/2006 (REACH) and is available on request. This product is not a hazardous product with regards to transportation legislation; neither does it contain substances that are hazardous to water within the meaning of the federal water act. After use, dispose of the waste product in accordance with the local / national authorities.

POLI-TAPE Klebefolien GmbH
Zeppelinstraße 17
53424 Remagen – GERMANY

Phone: +49 2642 98 36 0
Fax: +49 2642 98 36 37
E-Mail: info@poli-tape.de
Internet: www.poli-tape.de

The following technical details are issued to the best of our knowledge, however, without any responsibility for results due to several different kinds of material and application processes. Therefore, we highly recommend that before every usage a test should be conducted on the original material.



POLI-ETCH 5059 Crystal Frosty Air Free

General Product Information

- POLI-ETCH 5059 Crystal Frosty Air Free is a polymeric PVC-Film (translucent, 80 µ)
- Laminated with a two sided PE-coated silicone paper (145 g/m²) and equipped with a clear, micro-structured solvent acrylic adhesive (permanent)
- Suitable for bonding various surfaces for example on commercial slabs, glass, metal or plastic
- Especially developed to achieve a crystal frosty effect on glass and mirrors as well as transparent plastic sheets
- Suitable for the use on smooth as well as slightly curved surfaces
- POLI-ETCH 5059 Crystal Frosty Air Free is ideal for mid to long term presentation of advertising panels

Product Advantages

- Very good opacity and flatness characteristics with excellent dimensional stability and enhanced image brightness
- Highly effective solvent based acrylic enables wet and dry applications, while preventing any „silvering“ or „whitening“ effect
- Special and brilliant „crystal“ effect while being applied to various surfaces
- Special micro-structured solvent acrylic adhesive enables an easy repositioning during the application
- The film is resistant to the influence of solvent inks during the printing process and excellent printing results are guaranteed with all customary market ECO-Solvent, Solvent and UV printers

General Processing Details and Printing Information

- The print must be completely dry before laminating, a minimum of 48 hours drying time is recommended
- The surface which is to be laminated should be free from any impurities to achieve optimal adhesion to the digital printed film
- Detailed printing settings and numerous ICC-Profiles can be found on our homepage www.poli-tape.de
- Additional suggestions and processing details can be downloaded from our homepage

Transport & Storage

- 2 years if stored in original packaging at ca. 22 °C and 50 – 55% relative humidity
- Printed material should be completely dry and protected during transportation
- Temperature and humidity fluctuations should be avoided

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