

Silshield® MAGPS Multi-layer Anti-Graffiti Film Series

矽盾® MAGPS 系列多层防涂鸦膜 (MAGPS-02/MAGPS-04)

Product Description 产品简介

The SilShield® MAGPS multi-layer anti-graffiti film series is specifically developed and produced for the rail transit sector. This series consists of four removable PET film layers, each featuring the same high-standard anti-graffiti properties. This innovative design significantly minimizes the expenses associated with repairing vandalized window glass and enhances maintenance efficiency. The acrylic adhesive layer is versatile, allowing it to adhere to various surfaces, making it suitable for both manual tinting (using water) and automotive laminator tinting (using pressure without water).

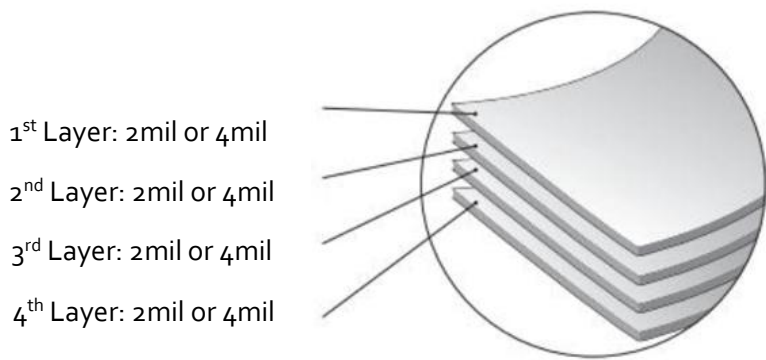
矽盾® MAGPS 系列多层防涂鸦膜是专为轨道交通行业设计制造的特殊薄膜，共有 4 层可以撕除的 PET 薄膜，每一层都具有同等标准的防涂鸦防爆效果。这种设计大大降低了车窗玻璃在被涂鸦和破坏之后的维修成本，提高维护效率。其自带的丙烯酸胶层适用于多种物体表面，适应人工贴膜（湿贴）及机器贴膜（干贴）两种方式。

Features and Benefits 产品性能

- 总共 4 层可移除的结构，相对于单层防涂鸦膜，维护起来更加便利，降低维护成本和时间
- 每层都具有出色的防涂鸦性能
- 单层厚度并有 2MIL 和 4MIL 两种选择，试用不同的施工环境和客户要求
- 表面具有特殊处理的防涂鸦涂层，有效减少蓄意及非蓄意的破坏，保护膜本身及玻璃基材
- 不留残胶，方便移除和更新，优选的胶层并同时适用于干贴和湿贴的方法
- 采用光学级别透明 PET 基材，透光率在贴膜之后仍然出色
- 防涂鸦级别 G1 级（标准 NF F31-112）用无危害标记的清洁剂清洗被涂鸦表面即可去除脏污
- 防火级别通过 EN45545, BS6853 及 ASTM 相关标准
- Up to 4 layers of removable structure, greatly improve the maintenance efficiency and lower the labor cost comparing with a single layer anti-graffiti film.
- Each layer has the same excellent anti-graffiti performance.
- Offer two thickness options for different environments and customer needs.
- The surface is specially treated with anti-graffiti coating, which can effectively reduce intentional and unintentional damage, protecting the film itself and the glass substrate.

- No residual adhesive, easy to remove and refresh, the selected adhesive layer is suitable for both dry and wet adhesive method.
- Using optical level transparent PET substrate, transmittance is still excellent after tinting the film.
- Anti-graffiti grade G1 (standard NF F31-112), meaning the graffiti surface can be easily cleaned with a non-hazardous detergent.
- Successfully meet EN45545, BS6853 and ASTM standards for flammability test.

Product structure 产品结构



Peel-off steps
撕膜导角示例



Application Area 应用区域:

- Glasses in the windows/doors
- Wind screen
- Display panels, PIS system panels
- Tables
- Baggage carrier
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Technical Data & Test Reports 技术参数 & 检测报告

Part Number	Layers	Single Layer thickness	Total Thickness	Base Material	Adhesive
Silshield MAGPS-04	4	4mil	19.6mil (0.5mm)	Optical grade PET	Acrylic
Silshield MAGPS-02	4	2mil	14.2mil(0.36mm)	Optical grade PET	Acrylic
Test Items				Test Standard	Result
Specific optical density of smoke generated by solid materials				ASTM E662:2015a	PASS
Surface flammability of materials using a radiant heat energy source				ASTM E162:2015b	PASS
Toxic gas sampling and analytical procedures				BSS7239:1988	PASS
Heat and visible smoke release rates for materials and products using an oxygen consumption calorimeter				ASTM E1354:2016a	PASS
Restriction on harmful substance test specific for CTA7K project				Specific for CTA7K	PASS
Substances of Very High Concern in accordance with Article 59(10) of the REACH Regulation				SVHC191	PASS
Decorating materials and indoor air limit of harmful substance for railway locomotive and vehicle				TB/T3139-2006	PASS
Flammability Test (EU)- Single layer test				EN45545	HL3
Flammability Test (England) - Single layer test				BS6853	la
Anti-Graffiti Grade -single layer test				NF F31-112	G1

Product Packing 产品包装

In rolls: 1.524M × 30.5M/roll 60IN×100FT/roll 卷材包装

Custom size: in flat sheets and bulk packing 定制尺寸

Ggaea-Meilleur specializes in providing flexible support and services tailored to meet the needs of our esteemed customers. We offer custom-sized film sheets and tinting services, ensuring a personalized solution for each client. Our mission is clear: we aim to empower our customers by delivering professional-grade products and innovative solutions. By doing so, we enhance their competitiveness within their respective industries, while simultaneously securing mutual success for both Ggaea-Meilleur and our valued clients.

对我们珍视的客户，至亚美莱提供灵活的支持和服务。我们不仅可以提供卷材，也提供按照客户尺寸我们的使命是：为客户提供最专业的整体解决方案，帮助客户在他们的领域取得成功。

Application 产品安装及施工

- Thoroughly prepare the substrate surface, ensuring it is free from oil and dust.
- Tint the film in a controlled, dust-free environment.
- You have the option to use either an automatic laminating machine or apply the film manually.
- Ensure the ambient temperature for film application is above 10 degrees Celsius.
- Note that extreme environmental conditions may impact the longevity of the products.
- 在贴膜前需要基材表面进行处理，避免油污、灰尘
- 贴膜应在无尘环境中进行
- 可以使用自动贴膜机进行贴膜，也可以人工湿贴
- 贴膜的环境温度应该在 10 摄氏度以上
- 极端的环境条件会降低产品的使用寿命

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