DATA SHEET 4805x.180.xxxxx

GO-MA/2K ESD

Polyester film with matt and conductive coating on the front side. The specific surface resistance of 10^6 to 10^9 ohm/square (DIN 53482) allows slow release without lightning discharge. Reverse side with ink receptive coating. Material is available with a thickness of 0.13 or 0.18 mm.

Available in sheets and rolls. Sheets available in standard packing unit or on demand. All sheets are equipped with interleaving paper as standard. Options such as self-adhesive protective film is available but will be an additional cost.

Formats

Art.Number	Nominal thickness (mm)	Packing quantity
4805x.130.xxxxx	0.13	100
4805x.180.xxxxx	0.18	100

Rolls

Art.Number	Length (m)	Nominal thickness (mm)
4805x.130.xxxxx	100	0.13
4805x.180.xxxxx	100	0.18

Technical data

Characteristic

- Ink receptive coating
- Suitable for window printing
- No lightning discharge

Specifications

Nominal thickness (mil)	7.2
Nominal thickness (mm)	0.18

Base Material	Polyester
Packing quantity	100

Product Applications

- Suitable for Membrane Switches, sign production as well as for production of labels

Handling

- Preliminary testing necessary by customer

Storage

- Once packaging is opened, store at a room temperature of 15 - 25°C and at a humidity of 30 - 60 %
- Shelf life 1 year after delivery (under above storage conditions)

Properties

Property	Test Method	Value
Optical		
Haze	ASTM D1003-77	90 - 95%
Gloss level (60°)	ASTM D2457-70, ASTM D523	6 - 7 GU
Mechanical		
Embossing	Folex method	possible
Tensile strength at break	ASTM D 882	170 N/mm^2
Switch life	Folex method according to DIN 42115	> 5 Mio. flexes
Chemical		
Chemical stability	Folex method	good
Electrical		
Dielectric strength[1]	ASTM D149-81	120 kV/mm (125 µm)
Dielectric constant [1]	ASTM D150, 1 kHz	3,25 (23my)
Surface resistivity	ASTM D257-83	10^6 - 10^9 Ohm/sq.
Thermal		
Shrinkage TD	130°C 30 min Folex method	< 0,7%
Shrinkage MD	130°C 30 min Folex method	< 0,7%
Maximum processing temperature		120°C
Melting temperature[1]	ASTM E794-85	255°C
Surface		
Roughness Ra	EN ISO 4287, ASME B46.1	0,8 - 1,1 µm
Scratch resistance	Folex method	good
Surface tension front side	DIN 53364, ASTM D2578	44 ± 2 mN/m

Surface tension reverse side	DIN 53364, ASTM D2578	38 ± 2 mN/m

[1] Data derived from base film Polyester manufacturer's literature for base film

Product liability clause

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