

DATA SHEET 48294.130.xxxxx

GO-HC/AN (DISCONTINUED PRODUCT)

Scratch-resistant polyester film with a hardcoat on the front side suitable for structured printing with UV lacquers. The reverse side has an ink receptive coating for screen printing inks. In addition it has a slightly opaque micro rough surface to avoid Newton's rings. Material is available with a thickness of 0.13 mm and 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.

Formats

| Art.Number | Nominal thickness (mm) | Packing quantity |
|-----------------|------------------------|------------------|
| 48320.180.xxxxx | 0,13 | 100 |
| 48294.130.xxxxx | 0.13 | 100 |
| 48294.180.xxxxx | 0.18 | 100 |

Rolls

| Art.Number | Length (m) | Nominal thickness (mm) |
|-----------------|------------|------------------------|
| 48294.130.xxxxx | 100 | 0.13 |
| 48294.180.xxxxx | 100 | 0.18 |

Technical data

Characteristic



- Ink receptive coating
- Suitable for textured lacquers

Excellent chemical resistance to common industrial solvents and household chemicals - please refer to Folex "Chemical Resistance Datasheet".

Folex products can be printed digital and screen in many cases with excellent results. We offer improved versions dedicated for digital printing.

Finish

- Clear

Specifications

| | |
|-------------------------|-----------|
| Nominal thickness (mil) | 5,2 |
| Nominal thickness (mm) | 0.13 |
| Base Material | Polyester |
| Packing quantity | 100 |

Product Applications

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 |
|--------------------------------|-------------------------------------|---|
| thickness | Folex Test Methode | 0,135 - 0,145mm (0,13mm), 0,185-0,20mm (0,18mm) |
| Optical | | |
| Haze | ASTM D1003-77 | 5 - 15% |
| Gloss level (60°) | ASTM D2457-70, ASTM D523 | 120 - 145 GU (20°, HC-Seite) |
| Yellowness Index | DIN 6167 | 1,39 (0,13mm), 1,74 (0,18mm) |
| 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 |
| adhesion of coating | Folex method | passed |
| Electrical | | |
| Breakdown Voltage ¹ | ASTM D 149 | 16,5 kV (0,13mm)/ 19,0 kV (0,18mm) |
| Chemical | | |
| Chemical stability | Folex method | very good |
| Thermal | | |
| Shrinkage TD | 130°C 30 min Folex method | < 0,5% |

| | | |
|----------------------------------|---------------------------|--|
| Shrinkage MD | 130°C 30 min Folex method | < 1,0% |
| Maximum processing temperature | | 120°C |
| Maximum use temp | | 45°C/ 70°C (with embossing/ without embossing at 50%RH without condensation) |
| Minimum use temp | | 0°C/ -20°C (with embossing/ without embossing at 50%RH without condensation) |
| Melting temperature ¹ | ASTM E794-85 | 255°C |
| Surface | | |
| Roughness Ra | EN ISO 4287, ASME B46.1 | 0,04-0,4 µm |
| Surface hardness | Folex method | 3 H |
| Scratch resistance | Folex method | very good |
| Surface tension front side | DIN 53364, ASTM D2578 | 35 - 38 mN/m |
| Surface tension reverse side | DIN 53364, ASTM D2578 | 38 ± 2 mN/m |

¹ Data derived from base film Polyester manufacturer's literature

Product liability clause

The foregoing information and any consulting provided by us in terms of application engineering shall be given to our best knowledge, but shall not be considered binding information neither with regard to any third party industrial property rights. Any such consulting shall not relieve you from your own review of our current consulting information as to their suitability for the intended procedures and applications. It is the users responsibility to determine the suitability for his/her own use and application and test through the complete production process to ensure the product is fully suitable for the intended use, since conditions of use are beyond our control. The sale of our products shall be subject to our current General Terms and Conditions. We reserve the right to make changes that serve to improve the product.

