

DATA SHEET 4591x.250.xxxxx

PC-HC

Clear polycarbonate film with scratch resistant coating on the front side.

Material is available with a thickness of 0.18 mm, 0.25 mm and 0.38 mm.

Available in sheets and rolls. All sheets and rolls are equipped with clear self-adhesive protective film on the hard coat side and green self-adhesive protective film on the reverse side as standard.

Formats

Art.Number	Nominal thickness (mm)	Packing quantity
4591x.180.xxxxx	0.18	100
4591x.250.xxxxx	0,25	50
4591x.380.xxxxx	0.38	100

Rolls

Art.Number	Length (m)	Nominal thickness (mm)
4591x.180.xxxxx	100	0.18
4591x.250.xxxxx	100	0.25
4591x.380.xxxxx	100	0.38

Technical data

Characteristic



- Ink receptive coating
- Suitable for textured laquers

Good chemical resistance. Please refer to Folex "Chemical Resistance Datasheet".

Folex products can be printed digital and screen in many cases with excellent results.

Specifications

Length (m)	100
Nominal thickness (mil)	8.2
Nominal thickness (mm)	0,25
Base Material	Polycarbonate

Product Applications

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

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 method	0.18 - 0.19 mm (0.18), 0.25 - 0.27 (0.25), 0.38 - 0.40 (0.38)
Optical		
Haze	ASTM D1003-77	0.1 - 0.5%
Gloss level (60°)	ASTM D2457-70, ASTM D523	175 - 190 (20°) GU
Total luminous transmission	ASTM D1003-77	91 - 92.5%
Yellowness Index	DIN 6167	0.5 - 0.6
Mechanical		
Embossing	Folex method	possible
Tensile strength at break ¹	ASTM D 882	65 N/mm ²
Switch life	Folex method according to DIN 42115	pending
Abrasion test	Folex method	Delta Haze: 0.5-5.5
Adhesion of coating	Folex method	passed
Electrical		
Dielectric strength ¹	IEC 243	5.25 kV
Chemical		
Chemical stability	Folex method	good
Thermal		
Shrinkage TD	130°C 30 min Folex method	< 0,35%
Shrinkage MD	130°C 30 min Folex method	< 0,35%
Maximum processing temperature		125°C
Max. use temp		not specified

Min. use temp		not specified
Surface		
Roughness Ra	EN ISO 4287, ASME B46.1	0.04 - 0.3 µm
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	35 ± 3 mN/m

¹ Data derived from base film Polycarbonate manufacturers 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.