DATA SHEET 4591x.380.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

Nominal thickness (mil)	15.2
Nominal thickness (mm)	0.38
Base Material	Polycarbonat
Packing quantity	100

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	30 kV/mm
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 Polcarbonate manufacturers literature

Product liability clause

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