

Multi-soft series 4000
3 year marking vinyl for PVC banners
Technical data sheet

Description

Multi-soft series 4000 is a range of calendered, flexible, super soft stabilised PVC films for indoor and outdoor marking applications, containing a semipolymeric plasticiser system. The vinyl is designed for “short-life” signage and lettering on flexible vinyl substrates. It is suitable for a wide range of applications e.g. onto curtains, banners and many other flexible substrates. The medium gloss surface inhibits undesired reflection.

Construction:

Vinyl: semipolymeric, stabilised, UV protected, precision calandered, cadmium free.
Adhesive: solvent-based acrylic, clear, pressure sensitive, permanent.
Backing paper: kraft, clay-coated, double-calandered, siliconised one side.

Durability:

Average durability is 3 years in middle European weather conditions. Exposure to severe temperatures, intense ultraviolet light and conditions in Southern European countries, tropical, sub-tropical, desert regions, in industrially polluted areas or high altitudes, may reduce durability. Correct substrate preparation and maintenance of vinyl will enhance durability.

Remark:

Flexible vinyl substrates contain high quantities (approx. 35-40%) of different monomeric phthalate plasticiser which could cause an intensive plasticiser migration into the adhesive. Therefore proper analysis of selected substrates is strictly recommended and the purchaser should carefully consider the fitness and performance of the whole system (substrate/adhesive/vinyl).

Shelf life

3 years when stored at moderate temperature and humidity.

Temperature ranges

Application > 10°C. (rolls have to be conditioned to room temperature)
End-use -40°C to+ 90°C.
Storage (optimum) 15°C to 20°C.
Rolls must be stored in cool, dry and sun-protected areas.

Physical properties

1. Vinyl

Thickness	80my	DIN 53370
Tensile strength at break	MD 19 CD 19	DIN and ISO
Elongation at break	MD 150% CD 170%	DIN and ISO
Gloss at 85 deg. Angle	24-45	DIN 67530

2. Adhesive

Grammage	23gr/m ²
Adhesion	> 19 N/25mm (Finat –1 test method)
UV resistance	5 – 7 years

3. Backing paper

Thickness	140 my
Weight	125 gr/m ²

Converting

Computer cutting: fast, easy and troublefree cutting, even down to small letters and fine lines. Adjustment and cleaning of the cutting head is important!

Application tape transfer: as the transfer of matt vinyls is always more difficult, we recommend the use of high tack application tape to withdraw the letters from the release paper. Multi-fix adhesive is repositionable and needs about 30 minutes for strong adhesion towards the surface. So, do not immediately withdraw the application tape from the letters but let the adhesive find its adhesion towards the surface.

Application: the use of lacquered banner material is recommended in order to reduce possible plasticizer migration into Multi-soft. Cleaning of the banner material with alcohol is recommended to remove possible migratory agents from the banner surface.

Removal of the sign: when removing signs from the banner, some adhesive residue may remain on the banner. To clean the banner, we recommend the use of denatured ethanol.

Important Notice

All Multi-fix products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning Multi-fix products is based upon research which the Company believes to be reliable although such information does not constitute a warranty.

Because of the variety of uses of Multi-fix products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. The seller shall not be liable for damages in excess of the purchase price of the product nor for incidental or consequential damages.

All specifications are subject to change without prior notice.

MULTI-FIX N.V. BOSDEL 43 PB 85
Tel. ++.32.(089) 35.31.15

3600 GENK BELGIUM
Fax. ++.32.(089) 35.21.91