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Brand

**Tekra**  
**Featured Product**

## Why Marnot® XL

When deciding on which product is the best option for your application, there are a lot of options in the market to consider. From the substrate type, to coating and aesthetic, our Marnot® line of films offers a wide range of options that will help narrow down your choices.

### **Polyester (PET) or Polycarbonate (PC)?**

Our Marnot line offers both films options, meaning you don't need to choose between chemical and abrasion resistance and the base film properties needed. When choosing between a PET and PC, it's important to know the application the film will be used for. PET is naturally more heat and chemical resistant, flexible and less likely to yellow in the sun, while PC offers a clarity in thicker gauges, and is easier to die cut and thermoform. Marnot XL helps level the playing field a bit, so you can narrow down the pros and cons of each option.

### **Chemical Resistance**

The Marnot line is indicative of a certain level of chemical resistance that meets the strict requirements of the appliance and membrane touch switch markets. With resistance to common chemicals like sunscreen, formula 409, lemon Juice and 20% bleach – you can be sure that when the surface is being cleaned, the film stays intact and the images stay clear. It also is resistant against several industrial solvents, such as acetone, MEK and brake fluid. This means you can be sure the materials won't be damaged during the manufacturing process of the finished good. It also ensures if the item is used in an industrial setting, the overlay graphic will remain clear and readable. This is important for warning labels and machinery overlays for safety and ease of operations.

### **Abrasion Resistance**

Between transit, processing, and general use – the surface of most products will get exposed to harsh environments. Marnot XL helps protect against scratching by shielding the film with a hard surface which is more resistant to marring than the film itself. This is tested using a pencil hardness test, which is a standard industry test method. By measuring the graphite hardness against the material with a controlled amount of pressure, the Marnot XL coating tests from H-2H pencil hardness (see fig. 1 below). This will ensure minimal abrasion when material shifts during shipping, or during processing and will stand up against general wear and tear in the field.

### **Aesthetic Options**

Marnot XL is offered in a wide range of gloss levels including clear, 20%, 35%, 55%, 75% and 90% options. This allows your end use customer to choose a look that blends best with their finished product. Marnot XL PC films can also be created using a textured polycarbonate, as well as flame-retardant polycarbonates for applications that have specific UL requirements.

## Pencil Hardness Scale



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### **Ease of Processing**

Marnot XL products allows for first and second surface printability with both UV and solvent inks. This eliminates the need for blind registration and allows you to texturize the hardcoated surface to get a tactile feel or include further design elements to make your piece stand out. It is also receptive to clearing inks, to ensure your digital windows look high-end and readable.

In addition to printability, the Marnot XL coating will die cut without edge shatter and allows for hot or cold embossing without micro-cracking. This will keep the integrity of your product intact through the full creation process and provide optimum performance in the field.

There are a lot of options in the market for printable films. When deciding which is best for your application, Marnot XL provides optimal performance, time-tested durability and ultimate confidence that your product will stand out.

Contact a Tekra sales representative to learn more.