

# Marnot® Advanced Hardcoat Clear Polyester

Marnot Advanced is a new generation of enhanced hardcoats for demanding graphic arts application.

Features of Marnot Advanced Clear Polyester include:

- Enhanced scratch resistance
- Excellent abrasion resistance
- Outstanding for embossing and die cutting
- Excellent chemical resistance to common household cleaners and industrial solvents
- Second surface printability with solvent and UV inks
- First surface printability with clear, matte texture UV cure inks

Marnot Advanced Clear Polyester is available in web width of 49" and in 7 mil thickness.

Custom roll widths and sheet sizes are available.

## TYPICAL VALUES ‡

Physical	Test Method	Value	Unit
Specific Gravity	ASTM D792	1.3954	g/cm3
Area Factor (Yield Factor)		0.05	Lb/in3
Clarity	TM 10.76	99	%
Haze	TM 10.76	<1	%
Light Transmission	TM 10.76	91	%
Gloss Back painted Flat Black	TM 10.15	92	GU
60 Degrees			
Gloss Clear Over White Matte 60 degrees	TM 10.15	164	GU
Mechanical	Test Method	Value	Unit
Abrasion Resistance	TM 10.13	5	
Pencil Hardness	TM 10.121	3H	
Tensile Strength at	ASTM D882		
Yield, MD		13000	psi
Yield, TD		13000	psi
Break, MD		24000	psi
Break, TD		27000	psi
Tear Strength at Initiation	ASTM D1004	1000	g/mil
Tear Strength at Propagation	ASTM D1922	16	g/mil
Thermal	Test Method	Value	Unit
Glass Transition		70	С
Shrinkage	30 min at 120C		
MD		0.5	%
TD		0.4	%

<sup>&</sup>lt;sup>‡</sup> These are typical values only and should not be confused with specification values. Specifications, tolerances And minimum values are available on request from your Tekra representative or from Tekra, LLC.

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### **POST UV CURING CHEMICAL RESISTANCE**

One Hour Surface Contact at 23C	4 hours surface contact at 23C
Pass Pass Pass Pass Pass Pass Pass Pass	Pass Pass Pass Pass Pass Pass Pass Pass
24 Hours Surface Contact at 23C	24 hours surface contact at 50C
Pass Pass Pass Pass Pass Pass Pass Pass	Pass Pass Pass Pass Pass Pass Pass Pass
Pass Pass Pass	Pass Pass Pass
	Surface Contact at 23C Pass Pass Pass Pass Pass Pass Pass Pas

#### MASKING AND INTERLEAVING

Marnot Advanced Clear PET can be configured with interleaving, mask on the first or second surface, or with no masking or interleaving. If no protective interleaving or masking is selected, Tekra will not warranty against spot abrasions or other damage to the uncoated surface in transit.

#### **PROCESSABILITY**

Tekra has made a good faith effort to validate the suitability of this product with common processing methods including screen printing, laser cutting, die cutting and embossing. However, because of the variability between different types of equipment, methods and processing conditions Tekra recommends that you work with your Tekra representative, your ink representative and your machine manufacturer to determine the substrates, inks, machinery and settings that work best in your particular situation.

The application suggestions, specifications and other data described here are based on experience that is believed by Tekra, LLC. to be reliable. Because of the characteristics of these products, you should, before using these products in production, perform your own tests to determine to your satisfaction whether these products are acceptable and suitable for your particular purposes under your operation conditions.

Any order for these products will be subject to Tekra's terms and conditions of sale

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<sup>&</sup>lt;sup>1</sup> Registered Trademark of SC Johnson

<sup>&</sup>lt;sup>2</sup> Registered Trademark of the Clorox Company

<sup>&</sup>lt;sup>3</sup> Registered Trademark of Proctor and Gamble

<sup>†</sup> Registered Trademark of ArmorAll Products Corp.

<sup>\*</sup> Registered Trademark of Schering Plough