



# Marnot® AG AM Polyester Anti-Glare / AM Hardcoat

Marnot AG AM film is Tekra's highly durable, abrasion, scratch, and chemical resistant polyester film. Its anti-glare and antimicrobial properties make it the ideal choice for applications such as: Membrane Switch Overlays, Touch Screens, and Control Panels.

Features of Marnot AG AM Polyester include:

- Provides antimicrobial protection to the film by inhibiting order and stain-causing bacterial growth.
- Uses thermally stabilized base film (HS)
- Outstanding optical qualities
- Excellent abrasion and scratch resistance
- Excellent chemical resistance to common household cleaners, oils, and industrial solvents
- Superior adhesion to a variety of sputter coated metals and oxides

Marnot AG AM Polyester is available in a web width of 49" and in 5, 7, and 10 mil thicknesses. 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	>66	%
Haze	TM 10.76	8	%
Light Transmission	TM 10.76	91	%
Gloss Back Painted Flat Black 60 Degrees	TM 10.15	55	GU
Gloss Clear Over White Matte 60 Degrees	TM 10.15	90	GU
Mechanical	Test Method	Value	Unit
Abrasion Resistance	TM 10.13	Δ 8	
Pencil Hardness (theoretical)	TM 10.97	2H-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	C
Shrinkage	30 min at 150C		
MD		0.2	%
TD		0.1	%

‡ 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.

**Post UV Curing Chemical Resistance**

Chemical	One Hour Surface Contact at 23C	24 Hours Surface Contact at 23C
Acetone	Pass	Pass
Concentrated HCl	Pass	Fail
MEK	Pass	Pass
Toluene	Pass	Pass
Methylene Chloride	Pass	Pass
Isopropyl Alcohol	Pass	Pass
Cyclohexanone	Pass	Pass
Ethyl Acetate	Pass	Pass
Xylene	Pass	Pass
Brake Fluid	Pass	Pass
Butyl Cellosolve	Pass	Pass
Hexane	Pass	Pass
	24 Hours Surface Contact at 23C	24 Hours Surface Contact at 50C
Coffee	Pass	Pass
Fantastik <sup>1</sup>	Pass	Pass
Formula 409 <sup>2</sup>	Pass	Pass
Windex w/Ammonia D <sup>1</sup>	Pass	Pass
Tide <sup>3</sup>	Pass	Pass
Downy <sup>3</sup>	Pass	Pass
20% Bleach	Pass	Pass
Mustard	Pass	Slight Stain
Mr. Clean <sup>3</sup>	Pass	Pass
Ketchup	Pass	Pass
Tea	Pass	Pass
Tomato Juice	Pass	Pass
Lemon Juice	Pass	Pass
Grape Juice	Pass	Pass
Vinegar	Pass	Pass
Milk	Pass	Pass
Armor All †	Pass	Pass
Ethanol	Pass	Pass
Salt Water	Pass	Pass
Sunscreen	Pass	Pass

**Antimicrobial Effectiveness**

Test Result	Test Method
Pass	ISO 22196

**Masking and Interleaving**

Marnot AG AM Polyester 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.

Antimicrobial testing data provided for information only. Tekra makes no direct or implied claims that this product will protect users or provide other health benefits. No finished product incorporating this product may make any public health claims without proper regulatory approvals. Not approved for use with products involving food contact, food packaging or storage of human drinking water.

The application suggestions, specifications, and other data described here are based on experience that is believed by Tekra to be reliable. We recommend that before using these products in production, you perform your own tests to determine whether these products are suitable for your particular purposes and operation conditions.

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

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<sup>1</sup> Registered Trademark of SC Johnson  
<sup>2</sup> Registered Trademark of the Clorox Company  
<sup>3</sup> Registered Trademark of Proctor and Gamble  
† Registered Trademark of ArmorAll Products Corp



TEKRA, LLC  
16700 W LINCOLN AVE  
NEW BERLIN, WI 53151  
800-448-3572