MARNOT® AG HS MAXPASS POLYESTER ANTI-GLARE HARDCOAT

Marnot AG Anti-Glare film is Tekra's highly durable abrasion, scratch and chemical resistant polyester film. Its anti-glare properties and toughness make it the ideal choice for use in applications such as: Touch Screens and Flat Panel Displays, LCD's and OLED's, Printed Electronics and Membrane Switch Overlays.

Features of Marnot AG HS MaxPass Polyester include:

- Uses thermally stabilized base film (HS)
- Maximum level of UV printable performance – delivering at least 20 passes with adhesion scores of three or better
- Outstanding optical qualities
- Excellent abrasion and scratch resistance
- Excellent chemical resistance to common household cleaners and industrial solvents
- First surface printability with clear, matte and texture UV cure ink on the first or second pass

Marnot AG HS MaxPass Polyester 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	>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 or from Tekra.*

POST UV CURING CHEMICAL RESISTANCE

Chemical	One Hour Surface Contact at 23C	4 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
Cyclehexanone	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 [1]	Pass	Pass
Formula 409 [2]	Pass	Pass
Windex w/ Ammonia D [1]	Pass	Pass
Tide [3]	Pass	Pass
Downy [3]	Pass	Pass
20% Bleach	Pass	Pass
Mustard	Pass	Slight Stain
Mr. Clean [3]	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

[1] Registered Trademark of SC Johnson
[2] Registered Trademark of the Clorox Company
[3] Registered Trademark of Proctor and Gamble
† Registered Trademark of ArmorAll Products Corp.

MASKING AND INTERLEAVING

Marnot AG HS MaxPass Polyester can be configured with interleaving, mask on the 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.

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PROCESSABILITY

Please observe a maximum processing temperature of 165F using various cutting methods to ensure satisfactory processing outcomes. 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 Corporation 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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