

MARNOT® XL HARDCOAT CLEAR POLYCARBONATE

Marnot films are a complete line of functional hardcoats designed for graphic arts applications.

Features of Marnot XL Clear Polycarbonate include:

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

Marnot XL Clear Polycarbonate is available in web width of 48" and in 7, 10, 15, 20 and 30 mil thickness. Custom roll widths and sheet sizes are available.

TYPICAL VALUES ‡

Physical	Test Method	Value	Unit
Specific Gravity	ASTM D792	1.2	g/cm3
Area Factor (Yield Factor)		0.0433	Lb/in3
Clarity	TM 10.76	98	%
Haze	TM 10.76	< 0.6	%
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	8	
Pencil Hardness	TM 10.97	HB	
Tensile Strength at Yield	ASTM D882	8400	psi
Break, MD		8800	psi
Tear Strength at Initiation	ASTM D1004	640	g/mil
Tear Strength at Propagation	ASTM D1922	30	g/mil
Thermal	Test Method	Value	Unit
Glass Transition		153	С
Shrinkage	30 min at 120C		
MD		0.1	%
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.

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POST UV CURING CHEMICAL RESISTANCE

Acetone Pass Pass Concentrated HCI Pass Fail MEK Pass Pass	
Contact at 23C 23C Acetone	
Acetone Pass Pass Concentrated HCI Pass Fail MEK Pass Pass	act at
Acetone Pass Pass Concentrated HCI Pass Fail MEK Pass Pass	
Concentrated HCI Pass Fail Pass Pass	
MEK Pass Pass	3
	·
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	3
24 Hours 24 h	ours
Surface surfa	ace
	act at
23C 50C	
Coffee Pass Sligh	nt Stain
Fantastik ¹ Pass Pass	
Formula 409 ² Pass Pass	6
Windex w/ Ammonia D 1 Pass Pass	-
Tide ³ Pass Pass	·
Downy ³ Pass Pass	6
20% Bleach Pass Pass	
Mustard Pass Stair	
Mr. Clean ³ Pass Pass	
Ketchup Pass Pass	
	nt Stain
Tomato Juice Pass Pass	-
Lemon Juice Pass Pass	
	nt Stain
Vinegar Pass Pass	
Milk Pass Pass	
Armor All † Pass Pass	
Ethanol Pass Pass	-
Salt Water Pass Pass	
Sunscreen Pass Pass	3

MASKING AND INTERLEAVING

Marnot XL Clear PC can be configured with mask on the second surface, or with mask on the first and second surfaces. If no protective 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 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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- 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.



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