

# Marnot Advanced™ LI Hardcoat Clear Polycarbonate

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

Features of Marnot Advanced LI Clear Polycarbonate include:

- •Low to no iridescence
- 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 and texture UV cure inks

Marnot Advanced LI 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	0.2	%
Light Transmission	TM 10.76	92	%
Gloss Back painted Flat Black 60 Degree		92	GU
Gloss Clear over White Matte 60 Degree	es	164	GU
Mechanical	Test Method	Value	Unit
Abrasion Resistance	TM 10.13	5	%
Pencil Hardness	TM 10.121	hb	
Tensile Strength at	ASTM D882		
Yield		8400	psi
Break		8800	psi
Tear Strength at Initiation	ASTM D1004	640	g/mil
Tear Strength at Propagation		30	g/mil
Thermal	Test Method	Value	Unit
Glass Transition		153	С
Shrinkage	30 min at 120C		
MD		0.1	%
TD		0.1	%

<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.

#### As Manufactured Chemical Resistance

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

- 25% DEET

Pass

### Masking and Interleaving

For best performance and yields, we recommend Marnot Advanced LI Clear Polycarbonate to be configured with mask on the first and second surface. Alternative options include the use of interleave as a replacement for the first surface mask.

## **Processability**

Tekra continually works to enhance the performance characteristics of our products keeping ease and flexibility of processing in mind. Improvements include:

- First surface decoration performance after 8 print and curing cycles
- Excellent chemical resistance without the need for post curing
- Minimize micro cracking for deeper embossing

We continually validate our products with common processing methods including screen printing, laser cutting, die cutting, and embossing. For more information on our testing or to conduct your own tests on samples, please contact your Tekra sales representative.

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 to whether these products are suitable for your particular purposes and operation conditions.

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<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

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