



Hanita Coatings



HP INDIGO® OPTIMIZED SUBSTRATES

I06W10L

## PRODUCT DATA

### 10 mil (250 micron) HP12W Polycarbonate

Dura-Go™ substrates are HP Indigo-licensed and were jointly developed by Hanita Coatings, Tekra Corporation and HP Indigo to create the premier product line of film substrates for HP Indigo digital presses.

Our proprietary primer coatings provide a number of benefits, including:

- Reliable, superior ink adhesion

- High definition of colors

- Long shelf life, guaranteed to print for one year after purchase when stored at less than 72F and less than 50% relative humidity.

The Dura-Go coating is highly resistant to weathering/degradation:

		Units	Test Conditions
Weatherability	2	Months	Outdoor
	24	Months	Indoor
Dish Washer	pass	N/A	1.5 hours, top cycle
Water and	200	Hours	65% RH at 80F
Chemical Resistance	200	Hours	Distilled Water at 90F
	2	Hours	Water + 2% detergent at 150F
	24	Hours	Ethanol at 75F

I06W10L is a high-performance coated film offering very good chemical/abrasion resistance, plus very good UV resistance. These performance capabilities, along with the film's ease of processing makes I06W10L a good choice for outdoor graphic applications such as: Warning Labels, Outdoor Menu Boards, Gasoline Pumps, and Marine Graphics.

### Typical Property Values

Property	ASTM (ISO) Test Method	Units USCS (SI)	Value
<b>Mechanical</b>			
Tensile Strength			
@ Yield	ASTM D882 (ISO 527)	psi (MPa)	8800 (60)
Ultimate	ASTM D882 (ISO 527)	psi (MPa)	9000 (62)
Tear Strength			
Initiation	ASTM D1004	lb/mil (kN/m)	1.51 (264)
Propagation	ASTM D1922	g/mil (kN/m)	40 (14)
<b>Thermal</b>			
Vicat Softening Temperature, B	ASTM 1525	°F (°C)	320 (160)
Heat Deflection Temp. by TMA at 1.8 Mpa	ISO 75 Modified	°F (°C)	290 (145)
Shrinkage at 302 °F (150 °C)	ASTM D1204	%	1.40%
<b>Physical</b>			
Density	ASTM D792 (ISO 1183)	slug/ft <sup>3</sup> (kg/m <sup>3</sup> )	2.3 (1200)
Surface Energy (1st surface / 2nd surface)	ASTM D5946-01	-	NA/34
Surface Tension (1st surface / 2nd surface)	Dyne Pens	Dyne	NA/38-40
Pencil Hardness (1st surface / 2nd surface)	ASTM D3363	-	hb-f/b-hb
Taber Abrasion	ASTM D1044	delta Haze	<1
<b>Optical</b>			
Refractive Index @ 77°F (25°C)	ASTM D542A	N <sub>D</sub>	1.5
Light Transmission	ASTM D1003	%	90
Yellowness Index	ASTM D1925	%	1.3
Haze	ASTM D1003	%	56
Gloss over Flat Black min/max @ 60°	ASTM D523-60 (ISO 2813)	-	12
UV % Transmission at 380 nm	UV/Visual Spectroscopy	%	14
Gauge Min/Max Limit of Nominal			-5% / 20%

The application suggestions, specifications and other data described here are based on experience that is believed by Tekra Corporation and Hanita Coatings 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 Seller's terms and conditions of sale.

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### CHEMICAL RESISTANCE

Chemical	Results <sup>1</sup>
<b>One Hour Continuous Surface Contact at 73°F</b>	
Acetone	Failed**
MEK	Passed
Toluene	Passed
Methylene Chloride	Failed**
Isopropyl Alcohol	Passed
Cyclohexanone	Passed
Ethyl Acetate	Passed
Xylene	Passed
40% NaOH	Passed
Concentrated HCl	Passed
Gasoline (Regular)	Passed
Gasoline (Unleaded)	Passed
Butyl Cellosolve	Passed
<b>24 Hour Surface Exposure at 120°F</b>	
Coffee	Passed
Top Job*	Passed
Fantastik*	Passed
Formula 409*	Passed
Windex w/Ammonia D*	Passed
Wisk*	Passed
Downy*	Passed
Spray N Wash*	Passed
Clorox*	Passed
Mustard	Passed
Mr. Clean*	Passed
Ketchup	Passed
Tea	Passed
Tomato Juice	Passed
Lemon Juice	Passed
Grape Juice	Passed
Vinegar	Passed
Milk	Passed

### Taber Abrasion Resistance (ASTM D1044) Lexan HP12W Graphic Film

Condition	Units	Value
CS10F Wheel 500 grams		
25	Change in % Haze	0.4
50	Change in % Haze	0.6
100	Change in % Haze	2
200	Change in % Haze	6.7

<sup>1</sup> As manufactured. Results do not change after film is post-cured

\*\* Failure constitutes any of the following: non-removable stain or cloudiness, blistering, delamination, or cracking of the coating or failure to pass crosshatch tape adhesion

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