Hanita Coatings

TEKRA®

DURA-Go

HP INDIGO® OPTIMIZED SUBSTRATES

I01BG10

PRODUCT DATA

10 mil (250 micron) Brushed/ Gloss 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

I01BG10 is a one side brushed, one side gloss transparant polycarbonate film coated on one side. It offers excellent clarity, high temperature resistance and dimensional stability. It is used in applications such as name plates, face plates, overlays, and high performance labels.

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Typical Property Values

Property	ASTM Test Method	Units (USCS)	Value	ISO Test Method	Units (SI)	Value
Mechanical						
Tensile Strength						
@Yield	ASTM D882	psi	8500	ISO 527	MPa	62
Ultimate	ASTM D882	psi	9000	ISO 527	MPa	65
Tensile Modulus	ASTM D882	psi	300000	ISO 527	MPa	2506
Tensile Elongation at Break	ASTM D882	%	100-160	ISO 527	%	100-154
Gardner Impact Strength at 0.03 in. (0.75 mm)	ASTM D3029	ft-lb	23	ISO 6603-1	J	31
Tear Strength						
Initiation	ASTM D1004	lb/mil	1.4-1.8		kN/m	245
Propogation	ASTM D1922	g/mil	30-55		kN/m	10-20
Puncture Resistance (Dynatup)	ASTM D3763	ft-lb	9		J	12
Fold Endurance (MIT)						
0.010 inch (0.25 mm)	ASTM D2176-69	double folds	120			
0.020 inch (0.50 mm)	ASTM D2176-69	double folds	30			
Thermal						
Coefficient of Thermal Conductivity	ASTM D5470	Btu/hr/ft²/°F/in	1.35		W/m°K	0.2
Coefficient of Thermal Expansion	ASTM E831	(x 10^{-5}/°F)	3.2	ISO 11359	(x 10^{-5}/°C)	5.8
Specific Heat @ 40°F (4 °C)	ASTM E1269	Btu/lb/°F	0.3		KJ/Kg-C°	1.25
Glass Transition Temperature	ASTM D3417/D3418	°F	307	ISO 11357	°C	153
Vicat Softening Temperature, B	ASTM 1525-00 Modified	°F	323		°C	160
Heat Deflection Temp. by TMA at 1.8 Mpa		°F	290	ISO 75 Modified	°C	145
Brittleness Temperature	ASTM D746	°F	-211		°C	-135
Physical						
Density	ASTM D792	Slug/ft²	2.3	ISO 1183	Kg/m^3	1200
Water Absorption, 24 hrs	ASTM D570	% change	0.35	ISO 62	% change	0.35
Surface Energy (1^{st} surface/2^{nd} surface)	ASTM D5946-01		38/34			
Surface Tension (1st surface/2nd surface)	Dyne Pens	Dyne	40-42/38-40			

Manufacturing Specifications	Min./Max. Limit of Nominal
Gauge Range	
0.010-0.015" (0.250-0.375 mm)	± 10%
0.020-0.030" (0.500-0.750 mm)	± 5%

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.