



Data Sheets

WHITE POLYPROPYLENE + ADHESIVE - IND0320

This stock is a **2.3 mil white polypropylene** coated for HP Indigo presses. It has a **white gloss finish**, **permanent high tack adhesive** and a **90# liner**.

Typical applications include labels and decals.

Typical Characteristics		
Target Adhesion Values (PSTC-1, 180° peel@12"/min., 73°F on stainless steel	15min 45oz	24hr 55oz
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Chemical Resistance		
Distilled Water (24hr)	No Effect	
Detergent (24hr)	No Effect	
10% HCl (10min)	No Effect	
10% Ammonium Hydroxide (10min)	No Effect	





Data Sheets

SILVER POLYESTER - IND0200

Dura-Go substrates are HP Indigo licensed and were jointly developed by Longbottom Suppliers and Indigo to create the premier product line of film substrates for Hp Indigo Digital presses.

The primer coatings provide a number of benefits, including:

- Reliable, superior ink adhesion
- High definition of colours
- Long shelf life, guaranteed to print for one year after purchase when stored at less than 72°F 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
Dishwasher	pass	N/A	1.5 hours, top cycle
Water and Chemical Resistance	200	Hours	100% RH at 100F
	200	Hours	Distilled Water at 90F
	2	Hours	Water + 2% detergent at 150F
	24	Hours	Ethanol at 75F

Silver Polyester is a **100 micron (4mil) PFP (Tipped) chrome polyester film coated one side** with Indigo primer.

It is a biaxially oriented plastic film frequently used in such applications as packaging, industrial, electronics and other specialty uses.

The availability of polyester is less than 125mic thickness allows it to be economically utilised for transparencies, printed labels and barcodes, and due to its inherent flexibility it is used in control panel and membrane switch overlays. This film is also highly desirable for their tensile strength and their ability to be heat stabilised, resulting in more precise registration of the film.





Data Sheets

WHITE FLEXIBLE VINYL + ADHESIVE - IND0336

Dura-Go substrates are HP Indigo licensed and were jointly developed by Longbottom Suppliers and Indigo to create the premier product line of film substrates for Hp Indigo Digital presses.

The primer coatings provide a number of benefits, including:

- Reliable, superior ink adhesion
- High definition of colours
- Long shelf life, guaranteed to print for one year after purchase when stored under proper conditions.

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

		Units	Test Conditions
Weatherability	2	Months	Outdoor
	24	Months	Indoor
Dishwasher	pass	N/A	1.5 hours, top cycle
Water and Chemical Resistance	200	Hours	100% RH at 100F
	200	Hours	Distilled Water at 90F
	2	Hours	Water + 2% detergent at 150F
	24	Hours	Ethanol at 75F

White Flexible Vinyl is a **100 micron (4mil) white vinyl film coated one side** with Indigo primer and with an **acrylic permanent pressure sensitive adhesive** backed with a **poly coated lay flat release liner**. Common applications include specialty decals.

	Measure	Unit	Test Method	
Thickness	Film	3.5	mil	ASTM D3652
	Adhesive	0.8	mil	ASTM D3652
	Liner	6.8	mil	ASTM D3652
Dimensional Stability	MD	0.75	%	On Al panel at 160F for 24 hours
	TD	0.75	%	

MD=Machine Direction TD=Transverse Direction

Adhesion Properties	Average	Test Method
Adhesion from Stainless Steel Acrylic Glass Polypropylene	oz/in (N/m) 101 (111) 99 (1089) 96 (1056)	PSTC 1 (Modified for 72 hr dwell time)
Expected Shear (hours)	20	PSTC 7 (1 hr dwell, 1 sq. in, 4lb load)
Tack (gm/sq.cm)	520	ASTM D2979
Expected Exterior Life	Two years	
Service Temp Range	-40°F to 176°F (-40°C to 80°C)	
Min Application Temp	10°F (-12°C)	
Storage Stability	Two years stored at 70°F (21°C) & 50% RH	

The application suggestions, specifications and other data described here are based on experience that is believed by Longbottom Suppliers 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.



Data Sheets

WHITE FLEXIBLE VINYL + LOW TACK ADHESIVE - IND0339

Dura-Go substrates are HP Indigo licensed and were jointly developed by Longbottom Suppliers and Indigo to create the premier product line of film substrates for Hp Indigo Digital presses.

The primer coatings provide a number of benefits, including:

- Reliable, superior ink adhesion
- High definition of colours
- Long shelf life, guaranteed to print for one year after purchase when stored under proper conditions.

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

		Units	Test Conditions
Weatherability	2	Months	Outdoor
	24	Months	Indoor
Dishwasher	pass	N/A	1.5 hours, top cycle
Water and Chemical Resistance	200	Hours	100% RH at 100F
	200	Hours	Distilled Water at 90F
	2	Hours	Water + 2% detergent at 150F
	24	Hours	Ethanol at 75F

White Flexible Vinyl is a **100 micron (4mil) white vinyl film coated one side** with Indigo primer and with an **acrylic low tack removable adhesive with a lay flat release liner**. This product offers excellent removability in all situations. Common applications include POP signage, window signage and temporary promotional material of all kinds.

	Measure	Unit	Test Method
Thickness	Film	3.5	mil
	Adhesive	0.8	mil
	Liner	6.8	mil
Dimensional Stability	MD	0.75	%
	TD	0.75	%
			On A1 panel at 160F for 24 hours

MD=Machine Direction TD=Transverse Direction

Adhesion Properties	Average	Test Method
Adhesion from	oz/in (N/m)	
Stainless Steel	8	PSTC 1
Acrylic	7	PSTC 1
Glass	6	PSTC 2
Polypropylene		
Expected Shear (hours)	75	PSTC 7 (1 hr dwell, 1 sq. in, 4lb load)
Tack (gm/sq.cm)	150	ASTM D2979
Expected Exterior Life	Two years	
Service Temp Range	-20°F to 176°F	
Min Application Temp	50°F	
Storage Stability	Two years stored at 70°F (21°C) & 50% RH	

The application suggestions, specifications and other data described here are based on experience that is believed by Longbottom Suppliers 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.



Data Sheets

WHITE POLYESTER + ADHESIVE - IND0330

Dura-Go substrates are HP Indigo licensed and were jointly developed by Longbottom Suppliers and Indigo to create the premier product line of film substrates for Hp Indigo Digital presses.

The primer coatings provide a number of benefits, including:

- Reliable, superior ink adhesion
- High definition of colours
- Long shelf life, guaranteed to print for one year after purchase when stored at less than 72°F 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
Dishwasher	pass	N/A	1.5 hours, top cycle
Water and Chemical Resistance	200	Hours	100% RH at 100F
	200	Hours	Distilled Water at 90F
	2	Hours	Water + 2% detergent at 150F
	24	Hours	Ethanol at 75F

White Polyester is a **50 micron (2mil) white polyester film coated one side** with Indigo primer. One application of this product is as a face material in the manufacture of PSA labels, traditionally used in electronic and various industrial markets. Polyester films are also highly desirable for their tensile strength, superior chemical resistance and high heat resistance, resulting in enhanced registration of the film.

	Measure	Unit	Test Method
Tensile Strength, MD	14,286	psi	N/A
Tensile Strength, TD	22,857	psi	N/A
Elongation at Break, MD	90%	N/A	N/A
Elongation at Break, TD	60%	N/A	N/A
Shrinkage, MD	3%	N/A	5 minutes at 375°F
Shrinkage, TD	1%	N/A	5 minutes at 375°F

MD=Machine Direction TD=Transverse Direction

Adhesion Properties	Average Value	Test Method
Adhesion from Stainless Steel pm 200 Clear Acrylic pm 200 Clear Polypropylene pm 200 Clear	oz/in (N/m) 67 (737) 71 (781) 48 (528)	PSTC 1 (Modified for 72 hr dwell time)
Expected Shear (hrs) pm 200 Clear	100+	PSTC 7 (1 hr dwell, 1 sq. in, 4lb load)
Tack (gm/sq.cm) pm 200 Clear	540	ASTM D2979
Expected Exterior Life	Depends on substrates	
Service Temp Range pm 200 Clear	-40°F to 302°F (-40°C to 150°C)	
Min Application Temp	50°F (10°C)	
Storage Stability	Two years stored at 70°F (21°C) & 50% RH	

The application suggestions, specifications and other data described here are based on experience that is believed by Longbottom Suppliers 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.





Data Sheets

SCUFF RESISTANCE CLEAR VINYL - IND0240

Dura-Go substrates are HP Indigo licensed and were jointly developed by Longbottom Suppliers and Indigo to create the premier product line of film substrates for Hp Indigo Digital presses.

The primer coatings provide a number of benefits, including:

- Reliable, superior ink adhesion
- High definition of colours
- Long shelf life, guaranteed to print for one year after purchase when stored at less than 72°F 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
Dishwasher	pass	N/A	1.5 hours, top cycle
Water and Chemical Resistance	200	Hours	100% RH at 100F
	200	Hours	Distilled Water at 90F
	2	Hours	Water + 2% detergent at 150F
	24	Hours	Ethanol at 75F

Scuff Resistant Vinyl is a **250 micron (10mil) vinyl film coated one side** with Indigo primer. It is suitable for many industrial printing applications and provides good tactile feedback on the first surface. One application of scuff resistant vinyl is that it can be second surface printed and uses include mouse pads and labels.

Physical properties include:

	Measure	Unit
Tensile Strength	6000	psi
Vicat Softening Point	166	Degrees F
Die Cutting Properties	Excellent	N/A

The application suggestions, specifications and other data described here are based on experience that is believed by Longbottom Suppliers 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.





Data Sheets

WHITE RIGID VINYL - 2 sided - IND0210

Dura-Go substrates are HP Indigo licensed and were jointly developed by Longbottom Suppliers and Indigo to create the premier product line of film substrates for Hp Indigo Digital presses.

The primer coatings provide a number of benefits, including:

- Reliable, superior ink adhesion
- High definition of colours
- Long shelf life, guaranteed to print for one year after purchase when stored at less than 72°F 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
Dishwasher	pass	N/A	1.5 hours, top cycle
Water and Chemical Resistance	200	Hours	100% RH at 100F
	200	Hours	Distilled Water at 90F
	2	Hours	Water + 2% detergent at 150F
	24	Hours	Ethanol at 75F

White Rigid Vinyl is a **250 micron (10mil) vinyl film coated two sides** with Indigo primer. It is suitable for virtually all printing applications and offers a variety of print surfaces to fit your specific printing needs. Rigid vinyl copolymer print stock also offers excellent flex properties, embossed character retention and colour consistency making it the ideal product for virtually all applications where long life, durability and performance are critical. Such applications include menus, POP displays and shelf danglers.

Physical properties include:

	Measure	Unit
Tensile Strength	5400-6100	psi
Flexural Strength	8400-9600	psi
Impact Strength-Izod notched	3 to 10	Ft. lbs./in of notch

The application suggestions, specifications and other data described here are based on experience that is believed by Longbottom Suppliers 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.





Data Sheets

CLEAR POLYESTER with paper backing - IND0145

Dura-Go substrates are HP Indigo licensed and were jointly developed by Longbottom Suppliers and Indigo to create the premier product line of film substrates for Hp Indigo Digital presses.

The primer coatings provide a number of benefits, including:

- Reliable, superior ink adhesion
- High definition of colours
- Long shelf life, guaranteed to print for one year after purchase when stored at less than 72°F 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
Dishwasher	pass	N/A	1.5 hours, top cycle
Water and Chemical Resistance	200	Hours	100% RH at 100F
	200	Hours	Distilled Water at 90F
	2	Hours	Water + 2% detergent at 150F
	24	Hours	Ethanol at 75F

Clear Polyester is a **125 micron (5mil) clear polyester film coated one side** with Indigo primer.

It is a biaxially oriented plastic film frequently used in such applications as packaging, industrial, electronics and other specialty uses.

The availability of polyester is less than 125mic thickness allows it to be economically utilised for transparencies, printed labels and barcodes, and due to its inherent flexibility it is used in control panel and membrane switch overlays. This film is also highly desirable for their tensile strength and their ability to be heat stabilised, resulting in more precise registration of the film.

	Measure	Unit	Test Method
Tensile Strength, MD	28,571	psi	N/A
Tensile Strength, TD	37,143	psi	N/A
Elongation at Break, MD	125%	N/A	N/A
Elongation at Break, TD	80%	N/A	N/A
Shrinkage, MD	3%	N/A	5 minutes at 375°F
Shrinkage, TD	1.50%	N/A	5 minutes at 375°F

MD=Machine Direction TD=Transverse Direction

The application suggestions, specifications and other data described here are based on experience that is believed by Longbottom Suppliers 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.





Data Sheets

CHROME POLYESTER + ADHESIVE - IND0340

Dura-Go substrates are HP Indigo licensed and were jointly developed by Longbottom Suppliers and Indigo to create the premier product line of film substrates for Hp Indigo Digital presses.

The primer coatings provide a number of benefits, including:

- Reliable, superior ink adhesion
- High definition of colours
- Long shelf life, guaranteed to print for one year after purchase when stored under proper conditions.

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

		Units	Test Conditions
Weatherability	2	Months	Outdoor
	24	Months	Indoor
Dishwasher	pass	N/A	1.5 hours, top cycle
Water and Chemical Resistance	200	Hours	100% RH at 100F
	200	Hours	Distilled Water at 90F
	2	Hours	Water + 2% detergent at 150F
	24	Hours	Ethanol at 75F

Chrome Polyester is a **50 micron (2mil) gloss silver metallised polyester coated one side** with Indigo primer and with an **acrylic permanent pressure sensitive adhesive** backed with a **poly coated lay flat release liner**. Common applications include electronic and various industrial applications. Polyester films are also highly desirable for their tensile strength, superior chemical resistance and high heat resistance, resulting in enhanced registration of the film when printed.

	Measure	Unit	Test Method
Tensile Strength, MD	14,286	psi	N/A
Tensile Strength, TD	22,857	psi	N/A
Elongation at Break, MD	90%	N/A	N/A
Elongation at Break, TD	60%	N/A	N/A
Shrinkage, MD	3%	N/A	5 minutes at 375°F
Shrinkage, TD	1.50%	N/A	5 minutes at 375°F

MD=Machine Direction TD=Transverse Direction

PERMANENT PRESSURE SENSITIVE ACRYLIC ADHESIVE PROPERTIES INCLUDE:

Adhesion Properties	Average	Test Method
Adhesion from	oz/in (N/m)	PSTC 1
Stainless Steel pm 200 Clear	67 (737)	(Modified for 72 hr dwell time)
Acrylic pm 200 Clear	71 (781)	
Polypropylene pm 200 Clear	48 (528)	
Expected Shear (hours)		
pm 200 Clear	100+	PSTC 7 (1 hr dwell, 1 sq. in, 4lb load)
Tack (gm/sq.cm) pm 200 Clear	540	ASTM D2979
Expected Exterior Life	Depends on substrates	
Service Temp Range pm 200 Clear	-40°F to 302°F (-40°C to 150°C)	
Min Application Temp	50°F (-10°C)	
Storage Stability	Two years stored at 70°F (21°C) & 50% RH	

The application suggestions, specifications and other data described here are based on experience that is believed by Longbottom Suppliers 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.



Data Sheets

KALEIDOSCOPE VINYL + ADHESIVE - IND0355

Dura-Go substrates are HP Indigo licensed and were jointly developed by Longbottom Suppliers and Indigo to create the premier product line of film substrates for Hp Indigo Digital presses.

The primer coatings provide a number of benefits, including:

- Reliable, superior ink adhesion
- High definition of colours
- Long shelf life, guaranteed to print for one year after purchase when stored under proper conditions.

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

		Units	Test Conditions
Weatherability	2	Months	Outdoor
	24	Months	Indoor
Dishwasher	pass	N/A	1.5 hours, top cycle
Water and Chemical Resistance	200	Hours	100% RH at 100F
	200	Hours	Distilled Water at 90F
	2	Hours	Water + 2% detergent at 150F
	24	Hours	Ethanol at 75F

Kaleidoscope Vinyl is a **60 micron (2.4mil) patterned light diffracting metallised rigid silver vinyl film coated one side** with Indigo primer and with an **acrylic permanent pressure with 94lb lay flat liner**. Common applications include specialty labels & decals.

	Measure	Unit	Test Method
Thickness	Film	2.4	mil
	Adhesive	1.0	mil
	Liner	6.7	mil
Dimensional Stability	MD	0.5	%
	TD	0.5	%
			On AI panel at 160F for 24 hours

MD=Machine Direction TD=Transverse Direction

Adhesion Properties	Average	Test Method
Adhesion from Stainless Steel Acrylic Glass Polypropylene	oz/in (N/m) 76 (836) 85 (935) 79 (869)	ASTM D 903 (Modified for 72 hr dwell time)
Expected Shear (hours)	50	PSTC 7 (1 hr dwell, 1 sq. in, 4lb load)
Tack (gm/sq.cm)	430	ASTM D2979
Expected Exterior Life	Two years	
Service Temp Range	-40°F to 176°F (-40°C to 80°C)	
Min Application Temp	15°F (10°C)	
Storage Stability	Two years stored at 70°F (21°C) & 50% RH	

The application suggestions, specifications and other data described here are based on experience that is believed by Longbottom Suppliers 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.



Data Sheets

CLEAR POLYESTER WITH ADHESIVE - IND0500

Dura-Go substrates are HP Indigo licensed and were jointly developed by Longbottom Suppliers and Indigo to create the premier product line of film substrates for Hp Indigo Digital presses.

The primer coatings provide a number of benefits, including:

- Reliable, superior ink adhesion
- High definition of colours
- Long shelf life, guaranteed to print for one year after purchase when stored at less than 72°F 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
Dishwasher	pass	N/A	1.5 hours, top cycle
Water and Chemical Resistance	200	Hours	100% RH at 100F
	200	Hours	Distilled Water at 90F
	2	Hours	Water + 2% detergent at 150F
	24	Hours	Ethanol at 75F

Clear Polyester + Adhesive is a **50 micron (2mil) clear polyester film coated one side** with Indigo primer and is laminated with a **clear permanent adhesive and a 90# liner**.

One application of this product is as a face material in the manufacture of PSA labels, traditionally used in electronic and various industrial markets.

This film is also highly desirable for their tensile strength, superior chemical resistance and high heat resistance, resulting in enhanced registration of the film.

	Measure	Unit	Test Method
Tensile Strength, MD	14,286	psi	N/A
Tensile Strength, TD	22,857	psi	N/A
Elongation at Break, MD	90%	N/A	N/A
Elongation at Break, TD	60%	N/A	N/A
Shrinkage, MD	3%	N/A	5 minutes at 375°F
Shrinkage, TD	1%	N/A	5 minutes at 375°F

MD=Machine Direction TD=Transverse Direction

Peel Adhesion	2.2lbs/in (528 N/m)	TLMI Method, 180o peel, 12"/min, 1" wide sample
Loop Tack	1.8lbs/in (316 N/m)	TLMI Method, 12"/min, 1" wide sample
Shear	4 hours	TLMI Method, 0.25 in ² x 500g
Adhesive Coat Weight	1.75g/100 in ² +/- 10%	Emtech Method E10MFP01
Release Range	15 to 50 g ² in	TLMI Method, 180° removal, 300 in/min
Service Temperature	-20°F to 302°F (-29°C to 150°C)	
Application Temperature	40°F to 120°F (5°C to 49°C)	

The application suggestions, specifications and other data described here are based on experience that is believed by Longbottom Suppliers 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.



Data Sheets

WHITE STATIC CLING - IND0310

Dura-Go substrates are HP Indigo licensed and were jointly developed by Longbottom Suppliers and Indigo to create the premier product line of film substrates for Hp Indigo Digital presses.

The primer coatings provide a number of benefits, including:

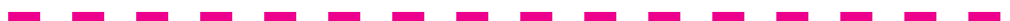
- Reliable, superior ink adhesion
- High definition of colours
- Long shelf life, guaranteed to print for 6 months after purchase when stored at less than 72°F and less than 50% relative humidity.

With static cling, it is the nature of the plasticizer in this film to continually migrate to the surface. This may create hazy surface appearance and drop in surface energy. The surface of the cling vinyl may have liner impression, flow lines and blotches.

Recommendations for product use:

- Wet method is recommended for large decal
- Use rubber roll to smooth out decals, squeegee is not recommended

Product Data		Value	Test Method
Physical Properties**			
Thickness mil (micron)	Film	7.1 (181) +/- 10%	ASTM D3652
	Carrier Sheet	9.5 (241) +/- 10%	
**for guidance only, not to be used for setting specifications. Due to the custom nature of this product the data presented are based on three or less production runs.			
Expected Exterior Life	Indoor use only		
Minimum Application Temperature	50 F (10C)		
Service Temperature Range	-10 to 176F (-23.3C to 80C)		





Data Sheets

DURAKOTE TRANSLUCENT - DUR165

Specially treated polyester film for printing in dry toner electro-photographic digital colour presses. Treated on both sides to facilitate duplex printing, and is thermally stabilised to reduce shrinkage.

Why Durakote?

- Exceptional print receptiveness and ink anchorage without sacrificing high colour definition.
- The mill is committed to on-going research and development giving you access to the latest film products to meet your ever changing printing need.
- Top quality assurance - ISO 9001 2000 accredited manufacture.

Benefits of Durakote Film:

- Durability: tear resistant Durakote polyester will withstand the most demanding of conditions and uses.
- Water resistance: for applications such as menus, underwater maps or boat manuals.
- Solvent resistance: when the challenge is in contact with chemicals and oils.
- Controlled shrinkage: easy handling both during printing and in high temperature applications.

General Specifications:

		Units	Test Method
Appearance	Matt		
Total film thickness	120	ums	
Surface resistivity	10 ¹³	Ω /	ASTM D-257
Tensile strength at break	MD* TD* 20 26	Kgf/mm ²	ASTM D-882
Elongation at break	MD* TD* 125 80	%	ASTM D-882
Shrinkage	MD* TD* 1.25 0	%	after 5 min. at 190°C

Printed Test Results:

Weatherability (1)	1	Months	Direct exposure
	2	Months	Reverse print
	12	Months	Behind glass
	12	Months	With UV block overlamine
Washing Machine	pass		50°C (120°F) 2.5 hours centrifuge 400 RPM
Dish Washer	pass		1.5 hours top cycle
Heat resistance	10	Mins.	160°C (320°F) in oven
Chemical Resistance	200	Hours	100% RH at 38°C (100°F) Immersion & Crockmetre
Immersion for at least 48 hours and Crockmetre test according to ASTM F1319	pass		Distilled water at 32°C (90°F)
	pass		Water with 2% detergent at RT*
	pass		Lubrication oil at RT*
	pass		Alcohol (Ethanol) at RT*
	pass		Alkaline solution PH=13 at RT*
	pass		Acidic solution PH=3at RT*
Smudge Resistance	pass		Dry cotton cloth ASTM F1319-90
Abrasion Resistance	no change		ASTM D1044 without Hazemeter test

(1) The weatherability period mentioned is an interpretation of a QUV weathering accelerated test (ASTM G-53), in which, 400 hours in the QUV is equivalent to 1 year outdoor conditions in California. This test accelerates weather conditions by cycles of humidity+heat and very powerful UV radiation exposure. During all the test period noted in the above table, no deterioration (fading, yellowing, cracking etc.) of the printed media was detected. Printing with UV resistant toners will extend the direct exposure period.



Data Sheets

CLEAR FLEXIBLE VINYL WITH REMOVABLE ADHESIVE - IND0360

Dura-Go substrates are HP Indigo licensed and were jointly developed by Longbottom Suppliers and Indigo to create the premier product line of film substrates for Hp Indigo Digital presses.

The primer coatings provide a number of benefits, including:

- Reliable, superior ink adhesion
- High definition of colours
- Long shelf life, guaranteed to print for one year after purchase when stored at less than 72°F 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
Dishwasher	pass	N/A	1.5 hours, top cycle
Water and Chemical Resistance	200	Hours	100% RH at 100F
	200	Hours	Distilled Water at 90F
	2	Hours	Water + 2% detergent at 150F
	24	Hours	Ethanol at 75F

Clear Flexible Vinyl + Removable Adhesive is a **90 micron (3.5mil) clear flexible vinyl with low peel removable acrylic adhesive, coated one side** with Indigo primer.

Typical applications for this product include: POP displays and signs, window graphics, and temporary labels and decals.

Typical Characteristics					
		15min	24hr	72hr	72hr heat aged
Adhesion Values	Stainless Steel	0.2 lbs	0.3 lbs	0.1 lbs	0.09 lbs
	Glass	0.2 lbs	0.1 lbs	0.1 lbs	0.2 lbs
	Polycarbonate	1.6 lbs	2.0 lbs	2.0 lbs	1.1 lbs
Minimum Application Temperature		50°F			
Service Temperature Range		-40° F to +180° F			
Shelf Life (@ 73°F, 50% RH)		2 years			
Outdoor Life		6 months removability (depends on substrate applied to)			
60° Gloss ASTM 02457		70 +/- 5°			

MD=Machine Direction TD=Transverse Direction

Chemical Resistance	
Distilled Water (24hr)	Slight Affect
Detergent (24hr)	No Effect
Anti-Freeze (24hr)	No Effect
SAE 20 Motor Oil (24hr)	No Effect
Gasoline (1hr)	Noticeable Lifting
10% HCl (10min)	NA
10% Ammonium Hydroxide (10min)	Slight Affect

The application suggestions, specifications and other data described here are based on experience that is believed by Longbottom Suppliers 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.