

B-910 Clear, High Gloss Acrylic Overlaminates

Description:

GENERAL:

Material type: Acrylic

Finish: Clear, Gloss

Adhesive: Permanent Acrylic

APPLICATIONS:



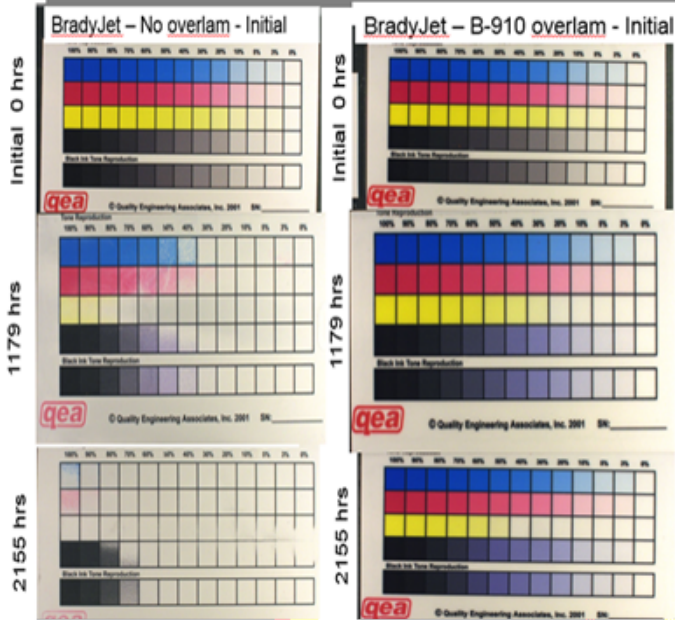
Overlaminates for use with BradyJet and THT printed labels to improve UV, chemical, and abrasion resistance.

REGULATORY/AGENCY APPROVALS:

B-910 is RoHS compliant to Directive 2011/65/EU June 8 2011, (Amendment 2015/863)

Property	Test Method	Average Results
Thickness, inches -Facestock -Adhesive -Liner	ASTM D1000	0.0020" (2.0 mil) 0.0010" (1.0 mil) 0.0032" (3.2 mil)
Tensile Strength, psi -MD -XD	ASTM D882	6000 psi 5000 psi
Elongation at Break, % -MD -XD	ASTM D882	30% 15%
Service Temperature	Expected Temperature Range Shrinkage	-20°F to 180°F (-29°C to 82°C) Shrinkage observed @ Temperature listed: 122°F (50°C) 0.5 mm 140°F - 158°F (60°C - 70°C) 0.8 mm 170°F (80°C) 1.3 mm
Application Temperature	Expected Temperature Range	41°F to 120°F (5°C to 49°C)
Adhesion, oz/in (dwell on panel) Stainless Steel -20 min Room Temperature	ASTM D1000	70.0 oz/in (76.6.N/mm)
Release from liner, g/in	ASTM D1000	16.7 oz/in (4.0 g/in)
Tack, g	ASTM2979 Polyken™ Probe Tack 1 second dwell	42 oz (1200g)

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Salt Fog Resistance	ASTM B117 30 days in 5% salt fog solution chamber	No visible effect
Abrasion Test	Taber Abraser, CS10 grinding wheels, 1000 g/arm -resurface CS10 wheels after every 300 cycles	<p>Material surface has residue build up after 800 cycles</p>  <p>Material worn through surface at 1300 cycles</p> 
Weatherability	ASTM G155 Weathering Xenon Arc Weatherometer	<p>Without B-910 overlaminates - With B-910 overlaminates</p> 

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PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples of image printed BradyJet materials were tested, applied directly to aluminum panels and overlaminated with B-910. Samples allowed to dwell 24 hours at room temperature prior to testing. Testing consisted of 5 cycles of 10 minute immersions in the specified chemicals followed by 30 minute recovery periods. Testing was conducted at room temperature unless noted.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE
Bio Breakdown	2, slight overlaminates lift
Brake Fluid DOT3	F=Failed, overlaminates dissolves
Deionized Water	1, No visible effect
Gasoline	F=Failed, complete removal of overlaminates
Isopropyl Alcohol	2,3 slight overlaminates lift and adhesive ooze
JP8 Jet Fuel	1, No visible effect
MEK	F=Failed, overlaminates dissolves
Mil 5606	2, slight overlaminates lift
Mineral Spirits	4= moderate removal or adhesive oozing
Skydrol®	F=Failed, overlaminates dissolves
10% Sodium Hydroxide	1, No visible effect
10% Sulfuric Acid	1, No visible effect
3% Alconox®	1, No visible effect
Acetone	F=Failed complete destruction
10% Ammonia	1, No visible effect
Bleach	1, No visible effect
Northwoods™ Buzz Saw Citrus Degreaser	1, No visible effect
Glacial Acetic Acid	F=Failed complete destruction
Kerosene	2=slight adhesive oozing

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SAE 20 @ 70°C	F=Failed complete destruction
Turpentine	1, No visible effect
3% Alconox®	1, No visible effect
Formula 409®	1, No visible effect
Windex®	1, No visible effect

Rating Scale:

- 1=no visible effect
- 2=slight adhesive oozing or edge lift. Detectable but minimal
- 3= adhesive oozing
- 4= moderate removal or adhesive oozing
- 5=complete delamination
- F=Failed complete destruction/lift

Not recommended for use in harsh solutions/solvents/chemicals such as Methyl Ethyl Ketone (MEK), Acetone, To ensure adhesion of overlaminates to high saturation printed inkjet materials, let air dry before applying overlaminates.

To ensure the best performance, ensure adequate placement and lamination pressure of the overlaminates. Overlaminates should extend beyond the length and width of the printed sample.

Shelf life is one year from the date of receipt for this product as long as this product is stored in its original packaging in an environment below 80° F (27° C) and 60% RH. It remains the responsibility of the user to assess the risk of using this product. We encourage customers to develop testing protocols that will qualify a product's fitness for use in their actual application.

Trademarks:

- ASTM: American Society for Testing and Materials (U.S.A.)
- BradyJet is a trademark of Brady Worldwide, Inc.
- Formula 409® is a registered trademark of the Clorox Company
- Windex® is a registered trademark of the S. C. JOHNSON & SON, INC
- Northwoods™ Buzz Saw Citrus Degreaser is a trademark of Superior Chemical Corporation
- Polyken™ is a trademark of Testing Machines Inc.
- Skydrol® is a registered trademark of the Monsanto Company

Note: All values shown are averages and should not be used for specification purposes.

Test data and test results contained in this document are for general information only and shall not be relied upon by Brady customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact Brady for further information. Product compliance information is based upon information provided by suppliers of the raw materials used by Brady to manufacture this product or based on results of testing using recognized analytical

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