Technical Data Sheet

BRADY B-910 CLEAR, HIGH GLOSS ACRYLIC OVERLAMINATE

TDS No. B-910
Effective Date: 02/08/2019

Description:

GENERAL

Material Type: Acrylic
Finish: Gloss
Adhesive: Permanent Acrylic

APPLICATIONS

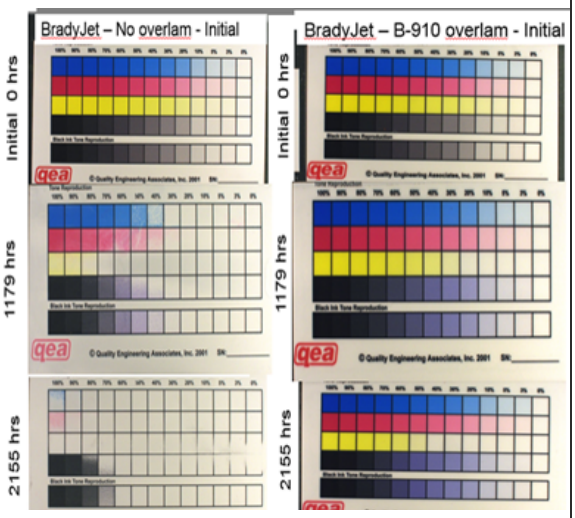
Overlaminate for use with BradyJet and THT printed labels to improve UV, chemical, and abrasion resistance.

REGULATORY APPROVALS

For information on the Weee-RoHS compliance status for a Brady Product go to one of the following websites:
In Canada: www.bradycanada.ca/weee-rohs
In Europe: www.bradyeurope.com/rohs
In Japan: www.brady.co.jp/products/labelsuse/rohs
All other regions: www.bradyid.com/weee-rohs

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D1000 -Facestock -Adhesive -Liner	 0.0020” (2.0 mil) 0.0010” (1.0 mil) 0.0032” (3.2 mil)
Tensile Strength	ASTM D882 -MD -XD	 6000 psi 5000 psi
Elongation at Break	ASTM D882 -MD -XD	 30% 15%
Service Temperature	Expected Temperature Range	-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
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	ASTM D1000	16.7 oz/in (4.0 g/in)
Tack	ASTM2979 Polyken™ Probe Tack 1 second dwell	42 oz (1200g)
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	**Material surface has residue build up after 800 cycles**  **Material worn through surface at 1300 cycles** 
Weatherability	ASTM G155 Weathering Xenon Arc Weatherometer	**Without B-910 overlaminate - with B-910 overlaminate** 

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE

Samples of image printed BradyJet material, B-2595, was 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 OF OVERLAMINATE
Bio Breakdown	Slight overlaminate lift
Brake Fluid DOT3	Overlaminate dissolves
Deionized Water	No visible effect
Gasoline	Complete removal of overlaminate
Isopropyl Alcohol	Slight overlaminate lift and adhesive ooze
JP8 Jet Fuel	No visible effect
MEK	Overlaminate dissolves
Mil 5606	Slight overlaminate lift
Mineral Spirits	Moderate removal or adhesive oozing

Skydrol®	Overlaminate dissolves
10% Sodium Hydroxide	No visible effect
10% Sulfuric Acid	No visible effect
3% Alconox®	No visible effect
Acetone	Complete destruction
10% Ammonia	No visible effect
Bleach	No visible effect
Northwoods™ Buzz Saw Citrus Degreaser	No visible effect
Glacial Acetic Acid	Complete destruction
Kerosene	Slight adhesive oozing
SAE 20 @ 70°C	Complete destruction
Turpentine	No visible effect
3% Alconox®	No visible effect
Formula 409®	No visible effect
Windex®	No visible effect

Not recommended for use in harsh solutions/solvents/chemicals such as Methyl Ethyl Ketone (MEK), Acetone,
To ensure adhesion of overlaminate to high saturation printed inkjet materials, let air dry before applying overlaminate.
To ensure the best performance, ensure adequate placement and lamination pressure of the overlaminate. Overlaminate should extend beyond the length and width of the printed sample.

Shelf Life:
Shelf life is two years 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 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.

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WARRANTY

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