

Facestock

A silver polyester film with backside metallisation. The surface is covered with an absorbing, matt topcoat for very good ink anchorage.

| | | |
|--------------|---------------------|---------|
| Basis Weight | 80 g/m ² | ISO 536 |
| Caliper | 55 µm | ISO 534 |

Adhesive

S8049 is a rubber hybridised acrylic (RHA) adhesive.

Liner

BG42Wh BSS: on both sides siliconized glassine paper, wood-free, super calandered and extremely tough and tear-resistant despite its thinness.

| | | |
|--------------|---------------------|-----------|
| Basis Weight | 64 g/m ² | ISO 536 |
| Caliper | 55 µm | ISO 534 |
| Transparency | 45 % | DIN 53147 |

Laminate

| | | |
|---------------|------------|---------|
| Total Caliper | 150 µm±10% | ISO 534 |
|---------------|------------|---------|

Performance Data

| | | |
|------------------------|---------------------------------|----------------------|
| Initial Tack | 25 N/25mm | FTM 9 Glass |
| Peel Adhesion 90° | 25 N/25mm | FTM 2 st.st. 24hr |
| Min. Application Temp. | 5 °C | |
| Service Temperature | -40 °C to 150 °C | |
| Adhesive Coat Weight | 45 g/m ² | FTM12 |
| Adhesive Type | rubber hybridised acrylic | |

Adhesive Performance

S8049 combines extremely high peel adhesion, also on low surface energy substrates, with excellent chemical and temperature resistance.

Applications and Use

Transfer PET matt silver was specially developed for labels on Durables Goods, especially in the automotive industry. but also in other segments. Identification labels and logistical labels are the main applications. When printed with high quality thermal transfer ribbons, very high chemical resistance of the print can be achieved.

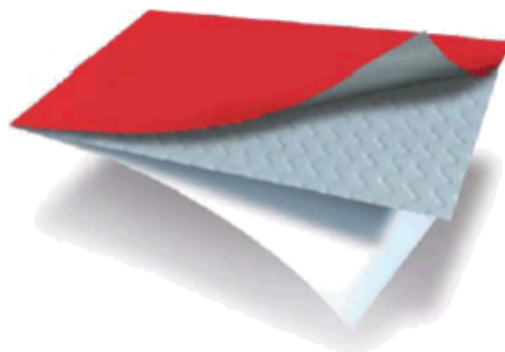
This is a premium product for the automotive industry using Avery Dennison RHA (rubber hybridised acrylic) adhesive technology. It is designed primarily for creating labels to be applied onto low surface energy plastic automotive parts and lacquers or other rough or low surface energy surfaces. S8049 products are engineered to be resistant to - also harsh - chemicals commonly found in the automotive and electronics industry.

Because of the high coat weight and high tack of the adhesive, there is a risk of adhesive ooze. Special care has to be taken in the conversion process. It is recommended to contact the supplier of die cutting equipment to specify the most suitable tool. Good results have been achieved using a 60° cutting angle with laser hardening and a no-stick coating.

AJ060

Fasson ®

TRANSFER PET MATT SILVER S8049-BG42WH BSS



| | |
|--------------------------|--|
| TRANSFER PET MATT SILVER |  |
|--------------------------|--|

| | |
|-------|---|
| S8049 |  |
|-------|---|

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|------------|---|
| BG42WH BSS |  |
|------------|---|

This is an automatically generated datasheet. All data to be considered as typical values and subject to change without prior notice. Further testing is always recommended.

If you would like to make a suggestion or comment on this datasheet, please send an email to datasheet.mgmt@eu.averydennison.com

Conversion and Printing

Thanks to the special surface coating, very good results can be achieved with thermal transfer printers equipped with conventional or near-edge print heads and using either wax/resin or pure resin ribbons. In addition the product can also be printed by all conventional roll label techniques, such as flexo, UV letterpress, silkscreen. Specific testing is required. For easy diecutting sharp corners should be avoided.

The backside siliconisation of the liner aids the conversion of this material as it reduces the risk of labels transferring to the backside of the label stock after diecutting.

Shelf Life

To obtain optimal performance, use this product within two years of the date of manufacture, under storage conditions as defined by FINAT (20-25°C; 40-50%RH). Prolonged storage outside these conditions might reduce the shelf life.

Appendix

UL and CSA recognition

This product meets the requirements as stated in UL 969 and CSA C22.2 No. 0.15 for indoor and outdoor use. The UL file number is MH27538. For specific information on approved conditions, see appendix.

Performance Data

Note: the following technical data should be considered representative or typical only and should not be used for specification purposes.

Peel Adhesion:

FTM1: 180°, 300 mm/min, dwell time: 48 hours

| Surface | N/25mm |
|----------------------------------|--------|
| ABS | 35,0 |
| Aluminium | 35,5 |
| Automotive lacquered panels | 35,0 |
| Glass | 37,0 |
| HDPE | 32,0 |
| LDPE | 31,0 |
| PA6 | 36,0 |
| Polycarbonate (PC) | 37,0 |
| Polyethylenetherephthalate (PET) | 37,5 |
| Polypropylene (PP) | 34,0 |
| Polystyrene (PS) | 31,0 |
| Stainless Steel | 37,0 |

Due to the unique RHA technology we strongly recommend waiting for 24 hours after application before performing any adhesive testing.

Chemical Resistance:

The performance results are based on 4 hours immersions at room temperature unless otherwise noted. Samples were applied to the test panel and conditioned for 24 hours before immersion and evaluated immediately upon removal. Peel adhesion was measured according to FTM1.

| Chemical | Test Substrate | N/25mm | Visual appearance | Edge Penetration |
|-------------------|-----------------|--------|-------------------|------------------|
| Ad Blue | Stainless Steel | 28,0 | No change | 0 mm |
| Biodiesel | Stainless Steel | 35,0 | No change | 0 mm |
| Bioethanol E85 | Glass | 29,0 | No change | 2 mm |
| Brake Fluid | Glass | 35,7 | No change | 0 mm |
| Diesel | Glass | 34,5 | No change | 0,5 mm |
| Engine Oil | Glass | 36,5 | No change | 0 mm |
| Gasoline | Glass | 22,7 | No change | 4,5 mm |
| Heptane | Glass | 23,5 | No change | 5 mm |
| Water, distilled | Aluminum | 29,5 | No change | 0 mm |
| Windshield washer | Stainless Steel | 31,5 | No change | 0 mm |

Chemicals: Ad Blue: Aral, Bioethanol E85: CropEnergies CropPower85, Brake Fluid: DOT 4 Synthetic (One Way) Diesel: TOTAL, Engine Oil: TOTAL quartz 700, 10 W 40, Gasoline: TOTAL Euro 95

Appendix

Thermal Transfer Printing:

Printability – Physical Resistance

Flat head printers (tests were performed with the printer Zebra XII 140):

| Ribbon | Settings speed energy | | Print Quality | ANSI Grade | Scratch resistance | Tape resistance |
|--------------|--------------------------|----|---------------|------------|-----------------------|--------------------|
| Armor AXR7+ | 4 | 15 | + | D* | ++ | ++ |
| DNP R300 | 3 | 15 | ++ | D* | ++ | + |
| limak SP330 | 3 | 15 | ++ | D* | ++ | o |
| ITW B324 | 3 | 15 | + | D* | ++ | o |
| Ricoh B110A | 5 | 15 | ++ | D* | ++ | ++ |
| Ricoh B110CX | 3 | 15 | + | D* | ++ | ++ |

Near edge printers (tests were performed with the printer Avery TTX 450 – Near Edge):

| Ribbon | Settings | Print Quality | ANSI Grade | Scratch resistance | Tape resistance |
|----------------|----------|---------------|------------|-----------------------|--------------------|
| Armor APR 600 | 6 "/s | ++ | D* | ++ | o |
| DNP TR4500 | 6 "/s | ++ | D* | ++ | o |
| Ricoh B120 Ex2 | 6 "/s | ++ | D* | ++ | ++ |

ANSI (American National Standards Institute) Grade: information about barcode quality

A: excellent B: good C: acceptable D: readable with difficulty

++: excellent +: good o: acceptable -: poor

*: The print quality is good, but due to the reflection of metallized films the contrast is low

Chemical Resistance

The printed samples were wetted on the surface with a soft clean cotton cloth soaked in the test solution by wiping 10 times back and forth with light pressure. After 5 seconds they were dried with a clean dry soft cloth. After 15 minutes the evaluation took place.

| | AXR7+ | R300 | SP330 | B324 | B110A | B110 CX | APR 600 | TR 4500 | B120E |
|-----------------|-------|------|-------|------|-------|------------|------------|------------|-------|
| Ad Blue | + | + | + | + | + | + | + | + | + |
| Anti-Freeze | + | + | + | + | + | + | o | o | o |
| Biodiesel | + | + | + | + | o | + | - | - | - |
| Bioethanol E85 | + | + | + | + | o | + | - | - | - |
| Brake fluid | o | o | + | + | o | o | o | o | o |
| Cleaner solvent | + | + | + | + | + | + | - | - | - |
| Engine oil | + | + | + | + | + | + | + | + | + |
| Gasoline | o | o | o | o | o | o | - | - | - |
| Hard wax polish | + | + | + | + | + | o | - | - | - |
| Isopropanol | + | + | + | + | + | + | o | o | o |
| Spirit | + | + | + | + | + | o | o | o | o |

+: good (no change) o: acceptable (minor change, still readable) -: poor

Chemicals:

Ad Blue: Aral, Anti-Freeze: Speedfrost "Speedfroil" 1:1 in water, Bioethanol E85: CropEnergies CropPower85

Brake Fluid: DOT 4 Synthetic (One Way), Cleaner Solvent: "Caramba" Cold Cleaner, Engine Oil: TOTAL quartz 700, 10 W 40

Gasoline: TOTAL Euro 95, Hard Wax Polish: „Nigrin“ Hard Wax Polish

Appendix

Compliance Data

UL – Underwriters Laboratories (UL 969, Category PGJ12)

File Number: MH27538, Category PGJ12

This material is UL recognized for indoor and outdoor use where exposed to high humidity or occasional exposure to water.

| Application Surface | Max Temp (°C) | Min Temp (°C) |
|---------------------------------|------------------|------------------|
| Acrylic powder paint | 150 | -40 |
| Aluminum | 150 | -40 |
| Epoxy powder paint | 150 | -40 |
| Galvanized steel | 150 | -40 |
| Polyester powder paint | 150 | -40 |
| Polyurethane powder paint | 150 | -40 |
| Stainless steel | 150 | -40 |
| Acrylonitrile butadiene styrene | 80 | -40 |
| Phenolic - Phenol Formaldehyde | 80 | -40 |
| Polyphenylene oxide/ether | 80 | -40 |
| Polystyrene | 80 | -40 |

The UL certification includes the printing with the following thermal transfer ribbons:

| | |
|----------------|------------------------|
| Armor | APR5, APR600, AXR 7+ |
| Astro-Nova | R-5, RV2 |
| Dainippon | R300, TR4500, TR6075 |
| Graficor | GC12, GC14 |
| ITW | B324 |
| limak | SP-330 |
| Italgrafica | TF330 |
| Kurz | K501 |
| Pelikan | T016 |
| Ricoh | B110A, B110CX, B120EX2 |
| Sony Chemicals | TR4500 |

Appendix

Compliance Data

CSA – Canadian Standards Association

UL has tested this product according to the requirements described in CSA C22.2 No. 0.15.

This product is C-UL recognized for indoor and outdoor use.

The details are listed in the UL file number MH27538, Category PGJ18.

| Group | Application Surface | Max. Temperature (°C) |
|-----------------------------|---|-----------------------|
| Metals | Bare, plated or enamelled steel; bare, anodized or enamelled aluminium | +150 |
| Powder coated metal Group A | Polyester powder coat paint | +150 |
| Powder coated metal Group C | Epoxy powder coat paint | +150 |
| Powder coated metal Group D | Polyurethane powder coat paint | +150 |
| Plastic Group II | Polyphenylene oxide, polyphenylene sulphide | +80 |
| Plastic Group III | Polycarbonate, acetates, acrylics | +80 |
| Plastic Group IV | Polyethylene, polypropylene, polybutylene | +80 |
| Plastic Group V | Polyamide, polyimide | +80 |
| Plastic Group VI | Polystyrene, styrene acrylonitrile, acrylonitrile-butadiene-styrene | +80 |
| Plastic Group VII | PVC (rigid), PVC plasticized | +80 |
| Plastic Group VIII | Glass-filled polyester, glass-filled epoxy | +80 |

The C-UL certification includes the printing with the following thermal transfer ribbons:

| | |
|-------------|------------------------|
| Armor | APR 600, AXR 7+, AXR 8 |
| Dainippon | R300, TR6075 |
| ITW | B324 |
| limak | SP-330 |
| Italgrafica | TF330 |
| Ricoh | B110A, B110CX, B120EX2 |

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Warranty

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