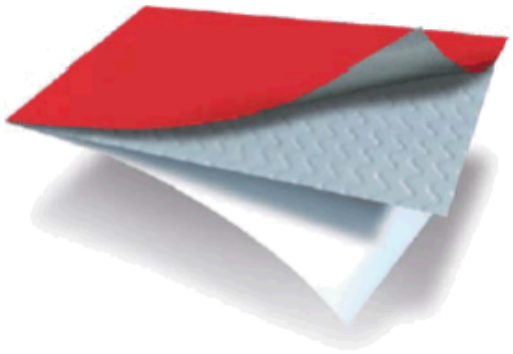
# BU455

# Fasson ®

## TRANSFER rPET MT WH TC20 S8002-BG42WH



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|---|---|
| TRANSFER RPET MT WH TC20 | |
| S8002 | |
| BG42WH | |

### Facestock

A polyester based film with a satin-matt topcoating for very good ink anchorage. The film is made with Post Consumer Recycled (PCR) polyester. 30% of the PET film is made from recycled PET resin.

| | | |
|---|---|---|
| Basis Weight | 55 g/m² | ISO 536 |
| Caliper | 50 µm | ISO 534 |

### Adhesive

S8002 is a permanent acrylic adhesive with good initial tack and high ultimate adhesion onto a variety of substrates including apolar plastics and lacquers.

### Liner

BG42 white, a supercalendered glassine paper.

| | | |
|---|---|---|
| Basis Weight | 64 g/m² | ISO 536 |
| Caliper | 57 µm | ISO 534 |
| Transparency | 50 % | DIN 53147 |

### Laminate

| | | |
|---|---|---|
| Total Caliper | 135 µm±10% | ISO 534 |

### Performance Data

| | | |
|---|---|---|
| Initial Tack | 12 N/25mm | FTM 9 Glass |
| Peel Adhesion 90° | 10.5 N/25mm | FTM2 st.st. |
| Min. Application Temp. | 5 °C | |
| Service Temperature | -40 °C to +150 °C | |
| Adhesive Coat Weight | 27 g/m² | FTM12 |
| Adhesive Type | Emulsion Acrylic | |

### Adhesive Performance

S8002 offers good initial tack and high ultimate adhesion onto a variety of substrates including apolar plastics and lacquers, as well as good resistance to solvents and cleaners. The adhesive has high cohesion and can be used for labelling curved or round substrates.

### Applications and Use

This face-stock was specifically developed for labelling electronic, home appliance and other electrical items. The surface is designed for thermal transfer and conventional print and features good chemical resistance.

S8002 is specifically developed for labelling electronic, home appliance and other electrical items due to its good bonding performance on a wide range of polar and apolar surfaces including metals, polycarbonate, ABS and polypropylene.

### Conversion and Printing

This film was developed for producing industrial labels carrying thermal transfer print. Best results can be achieved using resin or wax/resin ribbons. Additionally it can also be printed by all conventional roll label techniques, such as flexo, UV letterpress, silkscreen. Printing tests are recommended, especially with low-migration inks. Using UV inkjet technology is possible, but due to the characteristics of the matt topcoat the image sharpness might not be satisfactory.

Due to the formulation of S8002, enabling good performance on a wide range of substrates, combined with the specific coat weight, this adhesive has a certain risk of oozing. Rotary die cutting and tools optimised for this material are recommended.

## Compliance and Approvals

This product is UL and C-UL recognized (UL 969, CSA C22.2 No. 0.15). The UL file number is MH27538.

## 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 | 13,0 |
| Aluminium | 11,5 |
| Automotive lacquered panels | 10,5 |
| Glass | 12,0 |
| HDPE | 7,5 |
| LDPE | 8,0 |
| PA6 | 10,5 |
| Stainless Steel | 15,0 |

### 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 | Aluminium | 11,5 | No change | 0 mm |
| Biodiesel | Glass | 11,0 | No change | 0 mm |
| Bioethanol E85 | Glass | 11,5 | No change | 2 mm |
| Brake Fluid | Glass | 11,0 | No change | 0 mm |
| Diesel | Glass | 11,0 | No change | 0 mm |
| Engine Oil | Glass | 11,5 | No change | 0 mm |
| Gasoline | Glass | 8,0 | No change | 3 mm |
| Heptane | Glass | 10,0 | No change | 3 mm |
| Water, distilled | Aluminium | 7,5 | No change | 0 mm |
| All purpose cleaner | Glass | 8,5 | No change | 0 mm |
| Bathroom cleaner | Glass | 9,0 | No change | 0 mm |
| Bleach | Glass | 7,5 | No change | 0 mm |
| Dishwashing detergent | Glass | 9,0 | No change | 0 mm |

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**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
All Purpose Cleaner: Sagrotan Sea Breeze (Reckitt Benckiser), Bathroom Cleaner: Cillit Antikalk (Reckitt Benckiser)
Bleach: Danklorix (Colgate Palmoliv) , Dishwashing detergent:: Fairy Lemon (Procter& Gamble)

## 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 APR6 | 4 | 10 | ++ | A | - | - |
| Armor AXR7+ | 4 | 25 | ++ | A | o | + |
| DNP R300 | 4 | 25 | + | A | o | ++ |
| Iimak SP330 | 4 | 25 | ++ | A | o | ++ |
| ITW B324 | 4 | 25 | + | A | o | ++ |
| Ricoh B110A | 4 | 10 | ++ | A | - | - |
| Ricoh B110CR | 4 | 25 | ++ | A | + | ++ |

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 | + | B | - | + |
| DNP TR4500 | 7 ”/s | ++ | A | - | + |
| Ricoh B120E | 6 ”/s | ++ | A | - | + |

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

#### 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.

| | APR6 | AXR7+ | R300 | SP330 | B324 | B110A | B110 CR | APR 600 | TR450 0 | B120E |
|---|---|---|---|---|---|---|---|---|---|---|
| Ad Blue | + | + | + | + | + | + | + | + | + | + |
| Anti-Freeze | + | + | + | + | + | + | + | + | + | + |
| Biodiesel | - | + | + | + | + | + | + | - | - | - |
| Brake fluid | - | o | o | - | o | + | + | o | + | + |
| Cleaner solvent | - | + | + | + | + | o | + | - | - | - |
| Engine oil | + | + | + | + | + | + | + | + | + | + |
| Gasoline | - | - | - | o | + | - | - | - | - | - |
| Isopropanol | - | + | + | + | + | + | + | - | + | + |
| Spirit | - | o | + | + | + | o | + | o | + | + |

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

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**Chemicals:**
Ad Blue: Aral, Anti-Freeze: Speedfrost "Speedfroil" 1:1 in water, Brake Fluid: DOT 4 Synthetic (One Way),
Cleaner Solvent:: “Caramba” Cold Cleaner, Engine Oil: TOTAL quartz 700, 10 W 40, Gasoline: TOTAL Euro 95

## Appendix

### Compliance Data

#### UL – Underwriters Laboratories (UL 969, Category PGJI2)

File Number: MH27538, Category PGJI2

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) | I | O | Additional Conditions |
|---|---|---|---|---|---|
| Acrylic paint | 150 | -40 | X | X | O |
| Acrylic powder paint | 150 | -40 | X | X | - |
| Alkyd paint | 150 | -40 | X | X | O |
| Aluminum | 150 | -40 | X | X | O |
| Epoxy paint | 150 | -40 | X | X | O |
| Epoxy powder paint | 150 | -40 | X | X | - |
| Galvanized steel | 150 | -40 | X | X | O |
| Polyester paint | 150 | -40 | X | X | O |
| Polyester powder paint | 150 | -40 | X | X | - |
| Polyurethane powder paint | 150 | -40 | X | X | - |
| Porcelain | 150 | -40 | X | X | O |
| Stainless steel | 150 | -40 | X | X | O |
| Chromate treated metal (smooth) | 100 | -40 | X | X | - |
| Melamine | 100 | -40 | X | X | O |
| Nylon – Polyamide | 100 | -40 | X | X | O |
| Phenolic - Phenol Formaldehyde | 100 | -40 | X | X | - |
| Polycarbonate | 100 | -40 | X | X | - |
| Unsaturated polyester – thermoset | 100 | -40 | X | X | - |
| ABS | 80 | - | X | - | - |
| Polybutylene terephthalate (PBT) | 80 | -23 | X | X | - |
| Polyethylene (PE) | 80 | - | X | - | - |
| Polyphenylene oxide/ether (PPOX) | 80 | -40 | X | X | - |
| Polypropylene | 80 | -23 | X | X | O |
| Polystyrene (PS) | 80 | -40 | X | X | - |
| Polyvinyl chloride (PVC) | 80 | -40 | X | X | - |
| Polyvinylfluoride (PVF) | 80 | - | X | - | - |

I: Indoor use O: outdoor use
O: Occasional exposure to lubricating oils

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

| | |
|---|---|
| Armor | AXR1, AXR7+, APR6, APR600 |
| Dainippon | R300, R550, R510, V300 |
| Iimak | SP-330 |
| Italgrafica | TF330, TF335P |
| ITW | B324 |
| Ricoh | B110A, B110CR, B110Ti, B120E |
| Zebra Technologies | 5095 |

## 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 PGJI8.

| Group | Application Surface | Max. Temperature (°C) |
|---|---|---|
| Metals | Bare, plated or enamelled steel;<br>bare, anodized or enamelled aluminium | +125 |
| Plastic Group I | Phenolic, melamines, urea fomaldehyde | +100 |
| 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 | ABS, styrene, styrene acrylonitrile | +80 |
| Plastic Group VII | PVC (rigid), PVC plasticized | +80 |
| Plastic Group VIII | PET, PBT, epoxy plastic | +80 |
| Polyvinylfluoride (PVF) | | +80 |

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

| | |
|---|---|
| Armor | AXR1, AXR 7+ |
| Dainippon | R300, R510, V300 |
| ITW | B324 |
| Iimak | SP-330 |
| Italgrafica | TF330, TF335P |
| Ricoh | B110CR |

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Warranty
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