



76799 TT2 Bright Silver VOID-300E-90WG

Thermal Transfer Polyester Security Label Material

Product Data Sheet

Issued	:	June 2007
Supersedes	:	New Issue

Physical Properties

Not for specification purposes
(Calipers are nominal values)

Facestock	50 micron Bright Silver VOID Polyester
Adhesive	20 micron permanent, high tack acrylic adhesive.
Liner	77 micron, 90 g/m ² White Densified Glassine
Shelf Life	24 months from date of manufacture of product when properly stored between 22°C and 50% relative humidity.

Features:

- Tamper indicating - designed to provide a VOID message in the facestock when removal is attempted.
- Facestock is topcoated for thermal transfer printing. Resin ribbons are recommended for optimum durability. The topcoat also provides improved ink anchorage for traditional forms of press printing.
- Permanent acrylic adhesive, formulated to give high bond to most surfaces. Compatibility must be determined.
- The compact format of the VOID message permits manufacture of small labels
- Durable polyester facestock for harsh environments
- 90g/m² Glassine liner for consistent die cutting.

Application Ideas:

- Non transferable labels for automotive, appliance and electronics industries
- Tamper indicating labels and seals for medical and pharmaceutical industries

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Performance Characteristics
 Not for specification purposes

Adhesive Performance	Suitable for application to a variety of clean* surfaces, e.g.	
	Stainless Steel ABS Powder Coating Polycarbonate	Aluminium Polystyrene Phenolic

Environmental Performance	The topcoat is designed to have excellent resistance to UV, moisture and a variety of chemicals, e.g. diesel fuel, petroleum spirits, oil, anti-freeze, mild acids and alkalis, ethanol, IPA, hexane, water, soap solution.
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Temperature Range	Short Term Service temperature -40 to 80°C Prolonged exposure to temperatures Exceeding 80 °C may result in the full or partial non-functioning of the VOID destruct pattern. Minimum application temperature +5°C
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Processing

Printing:

Facestock is topcoated for improved ink receptivity and is designed for thermal transfer printing. It is printable by all standard roll processing methods including flexography, hot stamp, letterpress, and screen printing.

Die Cutting:

Rotary die cutting is recommended. Small labels should be evaluated carefully. Winding tensions should be kept at a minimum to help prevent the adhesive from oozing.

Packaging:

Finished labels should be stored in plastic bags.

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Special Considerations

*For maximum bond strength, the surface should be clean and dry. Typical cleaning solvents are heptane and IPA

NOTE: When using solvents, read and follow the manufacturer's precautions and directions for use

For best bonding conditions, application surface should be at room temperature or higher. Low temperature surfaces, below 5°C can cause the adhesive to become so firm that it will not develop maximum contact with the substrate. Higher initial bonds can be achieved through increased rubdown pressure.

Care should be taken not to disturb the tamper indicating feature by pre-destructing the void pattern when manually removing the label from the liner. Slowly remove the liner from the label at a 90° angle.

The tamper indicating mechanism (i.e. the "VOID" message) depends upon adequate adhesion of the label to the substrate. A sufficient bond may not develop on all surfaces due to low surface energy or contaminated surfaces (mold release). Therefore, it is important to determine the suitability of 76799 in the intended application by carefully pre-testing before the application process has begun.

The primary function of 76799 Label Stock is to affect a non-transferable (non-reusable) label or seal by causing the VOID message pattern to appear on the facstock surface when removal is attempted.

As a result of the primary function described above the VOID message may also be transferred to the application surface. This message is a secondary rather than a permanent indication of tampering since the VOID message transferred to the application surface can be removed by rubbing or by solvent wiping.

Caution should be exercised to avoid covering the surface of the label with opaque graphics to the extent that the VOID message is hidden by the graphics and the effectiveness of the label or seal is lessened.

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

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