



# 76968E TT0 MW PE90 TE-350E-90WG

## Tamper Evident Polyethylene Label Stock

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### Product Data Sheet

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<b>Issued</b>	:	<b>December 2005</b>
<b>Supersedes</b>	:	<b>November 2005</b>

#### Physical Properties

Not for specification purposes  
(Callipers are nominal values)

<b>Facestock</b>	109 micron, 60 g/m <sup>2</sup> destructible white polyethylene
<b>Adhesive</b>	20 micron 350E
<b>Liner</b>	77 micron, 90 g/m <sup>2</sup> White Densified Glassine
<b>Shelf Life</b>	24 months from date of manufacture of product when properly stored at 22°C and 50% relative humidity.

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#### Features:

- A tamper indicating polyethylene label material that may be used for a variety of security applications. Destructible facestock causes label to tear and delaminate if removal is attempted.
- Facestock has a matt topcoat that can be printed using standard roll-processing methods including flexography, hot foil and letterpress. Variable information can be applied by thermal transfer printing.
- 350E adhesive has excellent temperature and chemical resistance, and has a high bond to most surfaces. Material is suitable for application to a variety of clean, dry surfaces including aluminium, stainless steel, powder coated metal, ABS, polycarbonate and glass. Compatibility must be determined.
- 90 g/m<sup>2</sup> densified glassine liner assures consistent die cutting.

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#### Application Ideas:

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

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**Performance Characteristics**

Not for specification purposes

<b>Adhesive Performance</b>	Suitable for application to a variety of surfaces at standard conditions (24 hour dwell at 23°C and 50% Relative Humidity), e.g.	
	Glass Stainless Steel Powder Coated Metal Aluminium	ABS Polycarbonate Polypropylene

<b>Temperature Resistance</b>	Application Temperature	Minimum application temperature +5°C
	3 days at 60°C (on stainless steel)	No significant change to appearance or performance. Label delaminates when removal attempted at 60°C, and also after reconditioning to room temperature.
	3 days at -40°C (on stainless steel)	No significant change to appearance or performance. Label delaminates when removal attempted at -40°C, and also after reconditioning to room temperature.
<b>Humidity Resistance</b>	3 days at 40°C and 95% relative humidity (on stainless steel)	No significant change to appearance or performance. Label delaminates when removal attempted at 40°C & 95%RH, and also after reconditioning to room temperature.

**Processing**

**Printing:**

Facestock has a matt topcoat that can be printed using standard roll-processing methods including flexography, hot foil and letterpress. Variable information can be applied by thermal transfer printing.

**Die Cutting:**

Rotary die cutting is recommended. Fan folding of labels is not 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. Sufficient application pressure and dwell time are required to develop adequate bond to substrate. Higher initial bonds can be achieved through increased rubdown pressure.

The destructibility of the face material depends upon adequate adhesion of the label to the substrate. A sufficient bond may not develop on all surfaces due to low surface energy, contamination or surface roughness. The suitability for use on each specific application surface must be established. The destructibility of very small labels must be evaluated carefully.

**It is important to determine the suitability of 3M 76968E in the intended application by carefully pre-testing before the application process has begun.**

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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