



76972 3M TT1 MS PET50 VOID-300E-90LK

Matte Silver Thermal Transfer Polyester Security Label Material

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Description

A 50 micron matte silver, tamper evident polyester with a print receptive topcoat. Laminated with a high performance acrylic adhesive to a kraft liner.

Physical Properties

(Not for Specification Purposes)

	Property	Unit	Typical Value	Test Method
FACE	Caliper	micron	50 ± 5%	TAPPI 411
ADHESIVE	Peel Adhesion	N/25mm	Typically 9 to steel, voids	FINAT 1
LINER	Substance	gsm	90 ± 4 gsm	TAPPI 410
	Caliper	micron	94 ± 6 micron	TAPPI 411
PRODUCT	Service Temp	°C	-40°C to 70°C	—
	Application Temp	°C	5°C min	—

Application

The polyester film has a selective release system for use in tamper evident labels. When the label is applied to the substrate a "void" pattern is exposed if attempts are made to remove the label, providing immediate evidence of tampering. A wide variety of applications exist in the security labeling market to help prevent counterfeiting. The topcoat is designed to have excellent resistance to a wide variety of chemicals e.g. diesel fuel, petroleum spirits, car screen wash, shell anti-freeze, ammonia, 409 floor cleaner, 37% HCL, hexane, water, soap solution and salt solution. Exceeding the service temperature may cause the void mechanism to fail.

300E adhesive bonds well to a wide variety of substrates including metals, high surface energy (HSE) plastics and low surface energy (LSE) plastics. It is ideal for applications requiring high initial adhesion especially to LSE plastic surfaces.

90LK is a 90 gram kraft liner which improves lay-flat characteristics and can be back printed.

Printing

3M TT1 MS PT50 VOID has a topcoat designed to accept thermal transfer print. Variable information can be applied using resin and wax-resin ribbons on a variety of printers. For high definition printing check ribbon and printer compatibility. Recommendations can be given. Pre-print can be applied by letterpress, flexographic, screen or litho process.

Shelf Life

This product has a shelf life of 2 years if stored between 10°C and 25°C and 35 to 65% RH

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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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