

## Technical Data Sheet

### Metalized Holographic Polyester Void - MHPV

**General Description:** This Material is a top coated thermal transfer printable – tamper evident film. Coated with a pressure sensitive acrylic adhesive. Backed with a semi bleached Kraft release liner.

**Uses:** Designed for high-performance label applications requiring evidence of attempted removal of authentication and identification products. Topcoat resists smudging and abrasion when printed with recommended ribbon. Good for indoor/outdoor use with occasional exposure to lubricating oil and water.  
**Not suitable for barcode scanning of the holographic area.**

**Recommended Ribbons:** Nortec 103, 104 or 172 Thermal Transfer Ribbons.

**Approx. Total Thickness:**

Physical Properties	Value - Mil	Value - Micron
MT/C - Film	1	25 +/- 10%
Adhesive	0.6	15 +/- 3
Liner	3	100 +/- 10%

**Adhesion Properties:**

Type	Test Method	Results	Conditions
Basic adhesion	PSTC1 (modified for 72 hour dwell time)	This product shows tampering when removal is attempted by leaving a holographic pattern on the application surface.	Stainless Steel, Acrylic, and Glass
Tack		250-600 oz/in	

**Dimensional Stability:** No shrinkage observed on Al panel at 160°F (70°C) for 24 hour duration.

**Temperatures:**

Service:	-40°F to 302°F (-40°C to 150°C)
Min. Application Temp:	50°F (10°C)

**Exterior Durability:**

Film: 2 years.

**Shelf Life:** 2 years when stored at 70°F (21°C)/50% RH.

**Warranty:**

Nortec AMI recommends that a selected label type be thoroughly tested to insure it meets all end user requirements. Nortec AMI warrants only the purchaser that its products are free from defects in material and workmanship. Nortec AMI limits its obligation under this warranty and at its option to repair or replace the product. This warranty is in lieu of any other warranty, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. Nortec AMI is not liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising out of the use of or inability to use such product.

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