

# TECHNICAL DATA SHEET

www.tycoident.com

Document number: TTDS-074  
Issue: 2  
Date: November 2002

## MP metalized polyester

<b>MATERIAL DESCRIPTION:</b>	Tyco "MP" is a thermal transfer printable metalized polyester film with a permanent acrylic adhesive.
<b>USE:</b>	Designed for rating plate applications and other applications that require a "metal look" such as nameplates and equipment labels to detail product information and serial numbers. UL & CSA listed and guaranteed print performance and durability when used with Tyco's RHD series ribbon. Excellent for bar code applications.
<b>PRINT METHOD/RIBBON:</b>	Preferred Printer/Ribbon combination: Thermal Transfer: Tyco T308S-PRINTER, Tyco 1330-0607-00 Ribbon  Alternative Printer/Ribbon combinations: Thermal Transfer: T312M-PRINTER, 1330-0607-00 Ribbon Thermal Transfer: T312S-PRINTER, 1330-0607-00 Ribbon  Thermal Transfer: T400 Series, 1330-0607-00 Ribbon
<b>SHELF LIFE:</b>	2 years when stored at 21°C (70°F) at 50% R.H.
<b>ADHESIVE:</b>	Permanent acrylic
<b>COLOR:</b>	High gloss Silver
<b>APPROXIMATE TOTAL THICKNESS:</b>	Facestock: 0.051mm (0.0020in) Adhesive: 0.025mm (0.0010in) Liner: 0.079mm (0.0031in)
<b>ADHESION:</b>	ASTM-D-3330 (180° peel direction), 72 hour dwell at 21°C (70°F):  Stainless Steel: typical adhesive failure at 73N/100mm (66oz/in) Acrylic: typical adhesive failure at 74N/100mm (67oz/in) Polypropylene: typical adhesive failure at 27N/100mm (25oz/in) ABS: typical adhesive failure at 33N/100mm (30oz/in) Painted Steel: typical adhesive failure at 36N/100mm (33oz/in)

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<b>DIMENSIONAL STABILITY:</b>	< 1% shrinkage of 6"x6" sample when exposed to 71°C (160°F) for 42 hours
<b>SERVICE TEMPERATURE:</b>	-40° C to 150° C (-40° F to 302° F)
<b>MINIMUM APPLICATION TEMPERATURE:</b>	10°C (50°F)
<b>SOLDER IMMERSION:</b>	After 10-second immersion at 250°C (480°F) in molten solder: slight yellowing, print remains legible.
<b>FLAMMABILITY:</b>	UL94 rating 94VTM-2, slow to self extinguish
<b>UV TRANSMISSIBILITY:</b>	< 0.01%
<b>ABRASION RESISTANCE:</b>	Resistant to repeated abrasion: Print legible after 100 revolutions of CS-10 wheel with 500g load (Taber Abrasor 5130). Print remains legible after repeated rub testing as per AS-81531

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### AGENCY APPROVALS:

#### **UL - Underwriters Laboratories Inc. ®**

*UL File Number MH17292 Group PGJ12*

This listing is based on label materials and ribbons as a system. Listed system components:

**Label Material:** WP (White Polyester) or MP (Metalized Polyester)

**Thermal Transfer Ribbon:** RHD (1330-0607-XX recommended), RHT-35, RHT-40, and RHT-40E

*UL File Number MH17001*

On press preprinted labels using WP (White Polyester) and MP (Metalized Polyester) material

#### **CSA - Canadian Standards Association**

*CSA Listing ID LS68033-4 Class 7923 Printing Systems*

This listing is based on label materials and ribbons as a system. Listed system components:

**Label Material:** WP (White Polyester) and MP (Metalized Polyester)

**Thermal Transfer Ribbon:** RHD (High-Durability) (1330-0607-XX) indoor and outdoor use, "Heavy-duty" use.

### PRINT PERFORMANCE:

Good resistance to fluids- see below. Samples printed using Tyco recommended ribbons. All tests conducted at room temperature unless otherwise stated

SOLVENT	TEST	EFFECT
IPA	repeated cleaning (200 cycles Crockmeter)	Print remained clearly legible
Water	7 day immersion	No visual effect
Engine Oil at 250°F (121°C)	4 hour soak	No visual effect
Engine Coolant at 200°F (93°C)	4 hour soak	No visual effect
MIL 202F		
IPA/Mineral spirits	Repeated wiping (30 wipes)	No visual effect
Bioact	Repeated wiping (30 wipes)	No visual effect
Butyl Cellusolve	Repeated wiping (30 wipes)	No visual effect

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