

Identification

TECHNICAL DATA SHEET

www.tycoident.com

Document number: TTDS-076

Issue: 2

Date: November 2002

HW high tack white polyester

MATERIAL DESCRIPTION: Tyco "HW" is a thermal transfer printable white polyester film with a high tack

permanent acrylic adhesive.

USE: Designed for application to rough surfaces or where increased adhesion is

required. "HW" is also excellent for bar-coding, electronic PCB, component and general labeling applications. The high tack adhesive of "HW" will bond to the most demanding surfaces, including textured and contoured surfaces. For guaranteed print performance and durability, use with Tyco's RHD series ribbon.

PRINT METHOD/RIBBON: Preferred Printer/Ribbon combination:

Thermal Transfer: Tyco T308S-PRINTER, Tyco 1330-0607-10 Ribbon

Alternative Printer/Ribbon combinations:

Thermal Transfer: T312M-PRINTER, Tyco 1330-0607-10 Ribbon Thermal Transfer: T312S-PRINTER, Tyco 1330-0607-10 Ribbon Thermal Transfer: T200 Series, Tyco 1330-3300-101TT Ribbon Thermal Transfer: T400 Series, Tyco 1330-0607-10 Ribbon

SHELF LIFE: 2 years when stored at 21°C (70°F) at 50% R.H.

ADHESIVE: 'High-tack' permanent acrylic

COLOR: White

APPROXIMATE TOTAL

THICKNESS: Adhesive: 0.046mm (0.0018 in)

Facestock:

Liner: 0.081mm (0.0032 in)

0.051mm (0.0020 in)

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ADHESION: ASTM-D-3330 (180° peel direction), 10minute dwell at 21°C (70°F):

Stainless Steel: typical failure at 96N/100mm (88oz/in)
Polycarbonate: typical failure at 98N/100mm (90oz/in)
Polypropylene: typical failure at 80N/100mm (73oz/in)
HDPE: typical failure at 59N/100mm (54oz/in)
Smooth Powder coating: typical failure at 93N/100mm (85oz/in)
Finely Textured Powder coating: typical failure at 54N/100mm (49oz/in)
Glass: typical failure at 102N/100mm (93oz/in)

DIMENSIONAL STABILITY: <1% shrinkage of 6"x6" sample when exposed to 71°C (160°F) for 42 hours

SERVICE TEMPERATURE: -40° C to 150° C (-40° F to 302° F)

MINIMUM APPLICATION

TEMPERATURE:

SOLDER IMMERSION:

10°C (50°F)

After 10-second immersion at 250°C (480°F) in molten solder: slight yellowing,

print remains legible.

FLAMMABILITY: UL94 rating 94VTM-2, slow to self extinguish

UV TRANSMISSIBILITY: < 0.01%

ABRASION RESISTANCE: Printing (text and graphics) remain legible for 100 revolutions of CS-10 wheels

with 500 gram load (Taber-Abraser Model 5130) Print remains legible after

repeated rub testing as per AS-81531

CHEMICAL SOAK Excellent resitance

RESISTANCE: Samples soaked in fluids for four hours at room temperature, unless otherwise

stated. Samples applied to stainless steel panels 24 hours prior to immersion and evaluated one hour after removal from the fluids. Adhesion measured at 180°

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peel angle per ASTM D3330- typical results are shown:

<u>Chemical</u>	<u>Adhesion</u>	Effect	Edge Penetration
Isopropyl alcohol	96N/100mm	No change	0.6mm
Detergent	101N/100mm	No change	1.3mm
Engine Oil	112N/100mm	No change	0.6mm
Water (48 hours)	73N/100mm	No change	0.1mm
Toluene	55N/100mm	No change	5.2mm
Acetone	65N/100mm	No change	4.9mm
Brake Fluid	107N/100mm	No change	0.1mm
Gasoline	61N/100mm	No change	4.6mm
Diesel Fuel	102N/100mm	No change	0.7mm
Hydraulic Fluid	105N/100mm	No change	0.0mm

PRINT PERFORMANCE:

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

FLUID	EFFECT	
MIL 202F		
IPA/Mineral spirits	Print remains clearly legible	
Bioact	Print remains clearly legible	
Butyl Cellusolve	No visual effect	
IPA (Continued wipe testing - 50 wipes)	No visual effect	
Water (7 day immersion)	No visual effect	
Engine Oil at 250°F (121°C) (48 hour soak)	No visual effect	
Engine Coolant at 200°F (93°C) (4 hour soak)	No visual effect	

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