

TECHNICAL DATA SHEET

Avery Dennison™ HPA 1905W is specially designed for use on nameplates, membrane touch switch assemblies and graphic overlays. Applications requiring good "holding power" under stress and load and environmental resistance..

FEATURES

- Unsupported, specially formulated acrylic adhesive
- Polyethylene protected liner
- Ease of die-cutting and liner removal

BENEFITS

- Provides a very high temperature resistance and a high chemical, UV- and moisture resistance
- Facilitates slitting and conversion
- Combines a high degree of moisture stability with excellent die-cutting properties
- Enables smooth removal during application



CONSTRUCTION

Liner: White polyethylene protected paper with red 'Avery Dennison' imprint

Adhesive: Acrylic



Performance
Tapes

Adhesive Properties**Typical Values**

THICKNESS (ASTM D3652)	US Mils	MM's	Micron's (µm)
Liner	4.92	0.125	125
Adhesive	4.92	0.125	125
Total Caliper	9.84	0.250	250
PEEL ADHESION (ASTM D3330) 180° (12") 300 mm / min @ Room Temp			
SUBSTRATE		Lbf / in	N / Meter
Stainless Steel	20 min dwell	3.0	520
	24 hr dwell	3.3	580
Polycarbonate	20 min dwell	3.1	539
	24 hr dwell	3.5	620
Polyester	20 min dwell	4.6	800
	24 hr dwell	5.9	1040
Polypropylene	20 min dwell	1.6	280
	24 hr dwell	1.7	299
ABS	20 min dwell	3.3	580
	24 hr dwell	3.9	679
Painted Steel	20 min dwell	1.9	340
	24 hr dwell	2.6	461
LOOP TACK (ASTM D6195) (12") 300 mm / min @ Room Temp			
SUBSTRATE		Lbf / in	N / Meter
Glass	Initial	6.85	1200
STATIC SHEAR (ASTM D3654) 1"sq (6.25 cm ²) 1000 g @ Room Temp			
SUBSTRATE		Min to Fail	
Stainless Steel	Initial	> 10,000	
SAFT (ASTM 3654) 1"sq (6.25 cm ²) 1000 g			
SUBSTRATE	Min to Fail	Fail Temp °F	Fail Temp °C
Stainless Steel	475	392	200
TEMPERATURES		°F	°C
Minimum Application Temperature		50 °F	10 °C
Minimum Service Temperature		-40 °F	-40 °C
Maximum Service Temperature		392 °F	200 °C

Note: The listed values are typical only and not intended to serve as product specifications

APPLICATION TECHNIQUES

- It is essential with all pressure-sensitive tapes the application surface is clean, dry and free of grease and oil
- Bond strength is dependent upon the amount of adhesive-to-surface contact developed
- Note that different pressure, time and temperature on different (firm / rigid) surface achieves different performance

STORAGE / SHELF LIFE

Two years when stored at 64-72°F (18-22°C) / 30-70% relative humidity, out of direct sunlight and in original packaging.

For more information on our bonding tapes and adhesive solutions, call us:

North America: +1 866 462 8379

Asia Pacific: +86 512 57155001

Europe: +32 (0)14 40 48 11

www.tapes.averydennison.com