

TECHNICAL DATA SHEET

Avery Dennison™ FT 77400 is a double coated paper-based nonwoven tape with a solvent free UV-cured modified acrylic adhesive, and a glassine, natural liner with recycled content. High repulsion resistance performance, and a strong resistance to chemicals, plasticizers, UV, and moisture, it ensures reliable adhesion and broad temperature compatibility. It's ideal for precision assembly and small complex die-cutting, it copes with application on curved & convex shapes on various foams and fiber materials.

FEATURES

- High initial tack adhesive
- paper based nonwoven carrier
- Medium release, glassine, natural release liner with recycled content

BENEFITS

- Excellent resistance to water, solvents, chemicals, plasticizers, temperature and UV light
- High conformability to flat or curved surfaces
- High repulsion resistance for application on curved surfaces and under stress
- Immediate initial adhesion for part placement
- Excellent water jet and die cutting characteristics



CONSTRUCTION

Liner: Glassine natural liner with recycled content

Adhesive 1: Solvent free UV-cured modified acrylic

Carrier: Paper-based nonwoven

Adhesive 2: Solvent free UV-cured modified acrylic

Adhesive Properties

Typical Values

THICKNESS (ASTM D3652)		US Mil's	MM's	Micron's (µm)
Liner		2.95	0.075	75
Adhesive + Carrier		5.51	0.140	140
Total Caliper		8.46	0.215	215
PEEL ADHESION (ASTM D3330)				
180° (12") 300 mm / min @ Room Temp				
SUBSTRATE		Lbf / in	US Oz / In	N / Meter
Stainless Steel	20 min dwell	2.38	38	416
	24 hr dwell	3.86	62	684
Polypropylene	20 min dwell	2.28	37	400
	24 hr dwell	2.86	46	500
LOOP TACK (ASTM D6195)				
(12") 300 mm / min @ Room Temp				
SUBSTRATE		Lbf / in	US Oz / In	N / Meter
SS	Initial	2.19	35	384
STATIC SHEAR (ASTM D3654)				
1"sq (6.25 cm²) 1000 g @ Room Temp				
SUBSTRATE		Minutes to Fail		
Stainless Steel	Initial			
TEMPERATURES			°F	°C
Minimum Application Temperature			50 °F	10 °C
Minimum Service Temperature			-40 °F	-40 °C
Maximum Service Temperature			248 °F	120 °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 18-22 °C (64-72 °F) / 30-70 % relative humidity, out of direct sunlight and in original packaging.

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

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