TECHNICAL DATA SHEET

Avery DennisonTM FM 503P is a 920 µ m black foam tape with double coated pure acrylic adhesive on both sides. It has good tack and very high shear properties. FM 503P is suitable for mounting applications in the automotive market or torsion resistant pads in the Optical market.

FEATURES

- Double coated polyethylene foam carrier
- Pure acrylic adhesive skin
- Controlled release PE liner

BENEFITS

- Proven performance through multiple years of use
- Easy to die-cut properties allow for even small die-cut pieces



CONSTRUCTION

Liner: Blue polyethylene

Adhesive 1: Pure acrylic adhesive

Carrier: Black closed cell polyethylene foam

Adhesive 2: Pure acrylic adhesive

Adhesive Properties		Typical Values			
THICKNESS (ASTM D3652)		US Mils	MM's	Micron's (µm)	
Liner		3.94	0.100	100	
Carrier & Adhesive		36.22	0.920	920	
Total Caliper		40.16	1.020	1020	
PEEL ADHESION (ASTM D3330) 90° (12") 300 mm / min @ Room Temp, 125μ a reinforced	aluminium				
SUBSTRATE		Lbf / in	US Oz / In	N / Centimeter	
Automotive MSE Clear Coat	24 hr dwell	4.57	73	8	
Automotive LSE Clear Coat	24 hr dwell	2.28	37	4	
LOOP TACK (ASTM D6195) (12") 300 mm/min @ Room Temp		•	•	•	
SUBSTRATE		Lbf / in	US Oz / In	N / Meter	
Glass	Initial				
DYNAMIC SHEAR (ASTM D1002) 1"sq (6.25 cm²) 5000 g, @ Room Temp l				•	
SUBSTRATE			kPa		
Stainless Steel - Automotive MSE Clear Coat	24 hr dwell	700			
STATIC SHEAR (ASTM D3654) 1"sq (6.25 cm²) 5000 g @ Room Temp		•			
UBSTRATE			Min to Fail		
Stainless Steel 6.45 cm² - 1000g – RT	24 hr dwell	> 10,000 mins			
Stainless Steel 6.45 cm² - 500g – 80°C	24 hr dwell	> 10,000 mins			
TEMPERATURES			°F	°C	
Minimum Application Temperature			50 °F	10 °C	
Short Term (1 cm² - 100g - 240 mins)			230 °F	110 °C	
Long Term (6.45 cm ² - 500g - 10,000 mins)		<u> </u>	194 °F	90 °C	

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

APPLICATION TECHNIQUES

- It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied be clean, dry, and free of grease or oil
- Bond strength is dependent upon the amount of adhesive-to-surface contact developed
- Note that different pressure, time and temperature on different (film / 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:

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