

# Avery Dennison™ FM 477

## ◆ DESCRIPTION

Avery Dennison™ FM 477 is a double coated white foam tape specially designed for interior and exterior heavy duty mounting applications.

## ◆ CONSTRUCTION

Adhesive : Modified acrylic adhesive typified by a high tack, high ultimate adhesion typified by a broad temperature range.  
Carrier : Closed cell, crosslinked polyethylene foam.  
Liner : Brown impregnated paper.

## ◆ FEATURES & BENEFITS

### Features

- \* Specially developed modified adhesive
- \* High total caliper construction
- \* Closed cell polyethylene foam carrier
- \* Medium release liner

### Benefits

- \* Immediate high initial adhesion, high ultimate adhesion and shear bonding strength while retaining properties at extreme low and high temperatures. Excellent adhesion to a variety of metals, rigid plastics such as polypropylene, PVC, ABS and polycarbonate.
- \* Provides conformability to rough, irregular surfaces and compensates for mould tolerance variations.
- \* High internal strength. Provides conformability to irregular surfaces combined with excellent gap filling properties.
- \* A balanced release enabling easy conversion into diecut shapes and easy removal at the point of application.

## ◆ TYPICAL APPLICATIONS

Particularly suited as a splinter protective tape for interior car mirror mounting applications whereby the design is such that a gap filling tape is needed. Perfect adhesion to various surface coated mirror glassed, plastics like polypropylene and lightweight metal alloys. A versatile foam tape for various in- and outdoor bonding applications such as the fixation of decorative parts, mirrors, plastic moulds and extruded plastic profiles used in the furniture, white and brown goods industry and the construction market.

## ◆ SURFACE PREPARATION

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 and oil.



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Physical Properties	Typical Values		Units	Test Methods
<b>THICKNESS</b>				
Adhesive + Foam	900		microns	ATM .7
Liner :	75		microns	
Total :	975		microns	
<b>ELONGATION</b>				
<b>TENSILE STRENGTH</b>				
	250		%	ATM 13-
	1.3		kN/m	ASTM D882
<b>TACK (Finat)</b>				
	1530		N/m	ATM.8 – FINAT.9
<b>ADHESION (180° peel)</b>				
	<u>20 min</u>	<u>24 hrs</u>	N/m	ATM. 1 – PSTC. 1
Stainless steel				
Painted steel				
Polycarbonate				
Rigid polypropylene	545	580		
PVC				
<i>Adhesive strength to substrate exceeds the internal strength of the foam carrier.</i>				
<b>SHEAR RESISTANCE</b>				
(Static – 2500g/25mm x 25mm)	600		ks	ATM. 2 – FINAT. 8 - PSTC. 7
<b>SAFT – 500g</b>				
(Shear Adhesion Failure Temp.)	120		°C	
	<i>Foam shrinkage</i>			
<b>TEMPERATURES</b>				
Application (minimum)	+ 10		°C	
Service (continuous)	-40 to + 90		°C	
Short time	+ 100		°C	
<b>STORAGE and SHELF LIFE</b>				
Two years when stored at 21° C (70° F), 50 % relative humidity, out of direct sunlight.				
<b>Important</b> - Information on the above characteristics is based upon tests we believe to be reliable. The values given are typical values that vary according to application conditions. The values are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine prior to use the suitability of this material for their specific purposes. All Avery materials described herein are sold subject to Avery's Conditions of Sales, a copy of which is available on request.				

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