

VieTape AF5104D

DOUBLE-SIDED FOAM TAPE

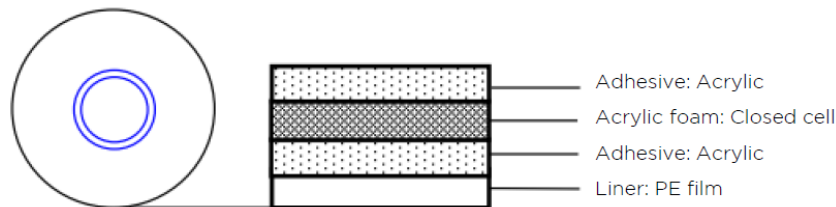
DESCRIPTION

VieTape AF5104D is a thick black double-sided acrylic foam tape. The modified acrylic adhesive on both side bonds to a broad range of high, medium and medium/low surface energy substrates including metals, glass and a wide variety of plastics and paints, including many powder coated paints

APPLICATION

With high bonding strength, high durability, and excellent sealing performance, AF5104D is used for many applications such as signboards, logos, electronics, frame reinforcement, etc.

STRUCTURE



FEATURE

Item	Parameter
Color	Black
Adhesive type	Modified Acrylic
Foam type	Acrylic foam (closed-cell)
Density	0.59 g/cm ³
Tape thickness	1.1 mm ± 10%
Liner thickness	0.13mm

TYPICAL PERFORMANCE PROPERTIES

Properties	Value	Method
90° Peel Adhesion	39 N/cm	ASTM D3330
Tensile strength	470 kPa	ASTM D897
Overlap Shear Strength	540 kPa	ASTM D1002
Short term temperature resistance	150°C	
Long term temperature resistance	90°C	

Issue date: September 2022

VIETAPE MATERIAL TECHNOLOGY CO.,LTD

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ELECTRICAL AND THERMAL PROPERTIES

Properties	Value	Method
Thermal conductivity	0.05 W/mK	
Coefficient of Thermal expansion	180 $\mu\text{m}/\text{m}/^{\circ}\text{C}$	
Dielectric constant	2.14 @1 KHz 1.95 @1 MHz	ASTM D150
Dielectric strength	455 V/mil	ASTM D140
Volume resistivity	2.5×10^{14} Ohm - cm	ASTM D257
Surface resistivity	$> 10^{16}$ Ohm/sq	ASTM D257

DIRECTION OF USE

Temperatures between 21 and 38°C are ideal for application.

Our analysis indicates that AF5104D can be used in some applications at temperatures as low as 10 °C. (Note: Depending on the substrate, different low-temperature operations are possible.)

For greater substrate contact, pressure-sensitive adhesives use viscous flow. Better adhesive contact is created by applying firm application pressure, which also strengthens the bond. For operation at low temperatures, this is particularly crucial.

The bonding surfaces must be thoroughly united, clean, and dry in order to achieve the best adhesion. Typical surface cleaning solvents are isopropyl alcohol/water mixture (rubbing alcohol) or heptane. Please take the appropriate precautions to handle solvents safely.

SHELF LIFE

24 months from date of manufacture when stored at 4 - 38°C (40 - 100°F) and 0 - 95% relative humidity.

The optimal storage conditions are 72°F (22°C) and 50% relative humidity.

The above values are sample observed values, we do not guarantee the actual performance due to the different of application method, bonding design, bonding substrate.. We highly recommend customer to test in the real part.

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