

VieTape AF5101D

VHB TAPE

DESCRIPTION

AF5101D is a black, double-coated acrylic foam tape with a PET liner that is 0.006 inches (0.15 mm) thick. The modified acrylic adhesive adheres to a wide range of high, medium, and medium/low surface energy substrates, such as metals, glass, numerous plastics, and paints, including many powder-coated paints. Even when the substrates are slightly out of alignment, this conformable foam provides good contact between them.

APPLICATION

This product is used for bonding and sealing, which creates a permanent seal against water, moisture, etc. It is a fast and convenient permanent bonding method that provides high strength and long-term durability

FEATURE

Item	Parameter
Color	Black
Liner	PET
Adhesive type	Modified Acrylic
Foam type	Acrylic foam
Tape thickness	0.15 mm± 15%
Liner thickness	0.08 mm
Density	0.72 g/cm ³

TYPICAL PERFORMANCE PROPERTIES

Properties	Value	Method
90° Peel Adhesion	16 N/cm	ASTM D3330
Tensile strength	690 kPa	ASTM D897
Overlap shear strength	690 kPa	ASTM D1002
Short term temperature resistance	149°C	
Long term temperature resistance	121°C	

Issue date: September 2022

VIETAPE MATERIAL TECHNOLOGY CO., LTD

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THERMAL AND ELECTRICAL PROPERTIES

Properties	Value	Method
Water vapor transmission	37.1 g/m ² /24hr	ASTM F1249
Thermal conductivity	0.05 W/mK	
Coefficient of Thermal expansion (CTE)	180 um/m/°C	
Dielectric constant	2.10 @1 KHz 1.90 @1 MHz	ASTM D150
Dielectric strength	18 kV/mm	ASTM D140
Volume resistivity	2.5 x 10 ¹⁴ Ohm - cm	ASTM D257

ORIGINAL SIZE

Property	Value
Standard Roll Length	65.8 m / 72 yd
Minimum Available Width	12.7 mm / 0.5 in
Maximum Available Width	1168 mm / 46 in
Normal Slitting Tolerance	± 0.79 mm/ ± 1/32 in

SHELF LIFE

24 months from date of manufacture when stored at 22°C (72°F) 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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