

## CleanBond™ LOW VOC Double Coated Tape

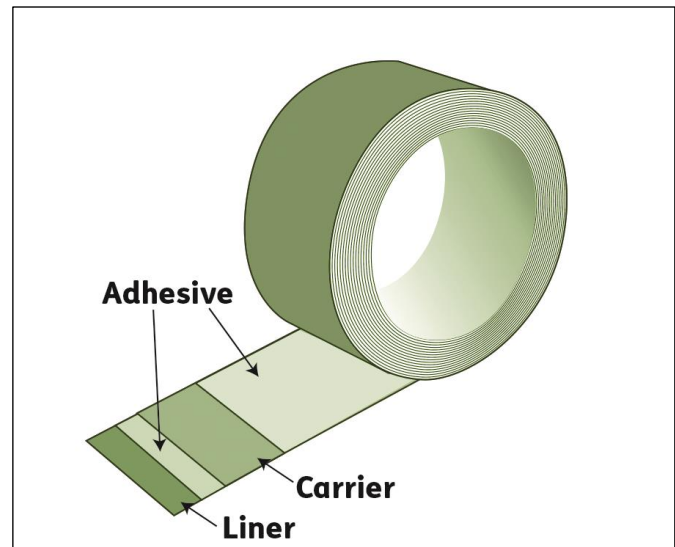
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Approved by: JNP

### Product Description

CB4182 consists of a .5mil PET carrier coated on both sides with 2.4 mils of clean, aggressive acrylic pressure sensitive adhesive. The adhesive is protected by either at two-side silicone coated 80# natural polycoated Kraft liner or a 72# White polycoated liner. This product is designed for applications that benefit from a clean, chemically inert adhesive tape.

### Product Construction

- **Carrier:** 0.5 mil PET
- **Adhesive:** 2.4 mils LV820 LOW VOC Acrylic
- **Liner:** 80# Natural PCK or 72# White PCK
- **Web Width:** 54"



### Features

- Low VOC – JIS A-1901
- Low FOG - VDA278, SAE J1756
- ISO 18916 Approved
- Aggressive acrylic adhesive
- Good shear properties
- Moisture stable PCK liner

### Benefits

- Acid free, PH Neutral
- Non-outgassing and non-migratory
- Smooth adhesive profile
- Excellent adhesion to a wide variety of surfaces.
- Chemical & UV resistant
- Excellent handling and die-cutting.
- Non-corrosive & non-oxidizing

### Applications

- Insulation and Shielding
- Wire harnessing
- Foam bonding applications
- Interior applications that require low VOC and low FOG characteristics
- Flexible Printed Circuits
- Printed Circuit Boards
- Archiving, photo mounting

<b>CB4182 Physical Properties</b>			
<b>Thickness</b>	<b>Mils CB4182-80</b>	<b>Mils CB4182-72</b>	
Adhesive	2.4/2.4	2.4/2.4	
Carrier	0.5	0.5	
Liner	6.1	5.8	
Total Thickness	11.4	11.1	
<b>Performance Test</b>	<b>Test Method</b>	<b>Typical Values</b>	
<b>Loop tack</b>	<b>PSTC-16-Method A</b>	<b>Lbs./in.</b>	<b>Oz/in.</b>
Stainless Steel	Backed with 2 mil PET	7.0	112
<b>Peel Adhesion - 180° 2 mil PET Backed</b>	<b>PSTC-101-Method A</b>	<b>Lbs./in.</b>	<b>Oz/in.</b>
30 minute dwell	Stainless Steel	8.5	136
24 hour dwell	Stainless Steel	8.7	139
30 minute dwell	ABS	8.2	131
30 minute dwell	Polycarbonate	8.5	136
30 minute dwell	HDPE	2.9	46
<b>Peel Adhesion - 180° 2 mil dead soft aluminum foil</b>	<b>PSTC-101-Method A</b>	<b>Lbs./in.</b>	<b>Oz/in.</b>
30 minute dwell	Stainless Steel	9.2	147
30 minute dwell	Polypropylene	3.0	48
<b>Shear</b>	<b>PSTC-107-Method A</b>	<b>Hours to Fail</b>	
1 kg weight	72°F	85+	
5 lb. weight	72°F	6	
<b>Tensile</b>	<b>ASTM-D882</b>	<b>Lbs./in.</b>	<b>Oz./in.</b>
MD/CD		10	160
<b>Elongation</b>	<b>ASTM-D882</b>	<b>%</b>	
MD		100	

Values given are typical and not for use in specifications

**IMPORTANT NOTICE:** The information given and recommendations made herein are based on our research and are believed to be accurate. In every case, user shall determine before using any product in full scale production, whether such product is suitable for their particular purpose under their own operating conditions. User assumes all risk and liability whatsoever in connection with their use of any product. The products discussed herein are sold without any warranty as to merchantability or any other warranty, expressed or implied. No representative of ours has any authority to waive or change the foregoing provisions unless in a specific agreement signed by the officers of seller and manufacturer. Ultimately, sellers and manufacturers only obligation shall be to replace or credit such quantity of the product proved to be defective at its discretion.

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Foam Bonding Performance		
Substrate	Application Method	Result
EPDM	Room Temp with 50% compression	Foam Destruction
Nitrile PVC	Room Temp with 50% compression	Foam Destruction
EVA Blend	Room Temp with 50% compression	Foam Destruction
Polyether polyurethane Foam	Room Temp with 50% compression	Foam Destruction
NBR-PVC	Room Temp with 50% compression	Foam Destruction

VOC Analysis Method: JIS-A 1801		
Substance	Values not to exceed [ $\mu\text{g}/\text{m}^3$ ]	CB4182
Formaldehyde	100	0.4
Acetaldehyde	48	1.2
Toluene	260	*
Xylenes	870	1.4
p-Dichlorobenzene	240	*
Ethylbenzene	3800	*
Styrene	220	*
Chlorpyrifos	1	*
Di-2-ethylhexyl phthalate	120	*
Diazinon	.29	*
Nonanal	41	*
Fenobucarb	33	*

\* Below Detection Limits

Fog Analysis Method: VDA278	Specification Requirements [ $\mu\text{g}/\text{g}$ ]	CB4182
FOG	< 250	30

Fog Analysis Method: SAE J1756	Specification Requirements Gravimetric Fog, mg	CB4182
FOG		0.11

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## SERVICE TEMPERATURE

Application: Above 50°F (10°C) for best performance  
End Use: -40°F to 300°F (-40°C to 121°C) depending on laminate construction and end use application

## APPLICATION DETAILS

For best performance surfaces must be clean, dry and free of any oil, grease or other contaminant.

## SHELF LIFE

Two year shelf life when stored at 75°F. (24°C.) and 50% relative humidity or less. It is recommended that the product be stored in its original package until ready to use. **CALL 1-800-328-2619 for additional product information**

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