



PERFORMANCE GUIDE

CB4190-2PET Double Coated Tape

CleanBond™ LOW VOC Adhesive

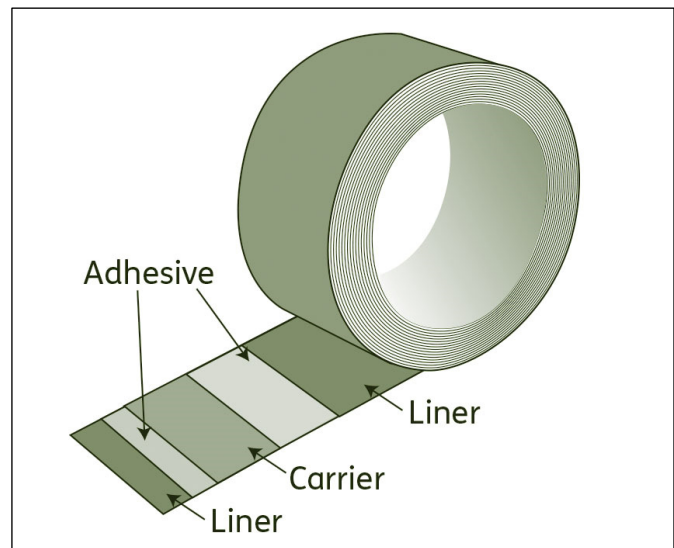
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Product Description

CB4190-2PET consists of a .5mil PET carrier coated on both sides with 1.2 mils of clean, high shear acrylic adhesive with moderate peel and tack. The adhesive is protected by two 2.0 mil clear PET liners. This product is designed for applications that benefit from a clean, chemically inert adhesive tape.

Product Construction

- **Carrier:** 0.5 mil PET
- **Adhesive:** 1.2 mils LV840 LOW VOC Acrylic
- **Liners:** Two – 2mil Clear PET
- **Web Width:** 60"



Features

- Low VOC –JIS A-1901
- Low FOG - VDA278
- ISO 18916 Approved
- High Dielectric Strength
- High Shear acrylic adhesive
- Moderate Peel & Tack

Benefits

- 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

- Flexible Printed Circuits
- Printed Circuit Boards
- Insulation and Shielding
- Wire harnessing
- Thermal Interface Materials
- Foam bonding applications
- Interior applications that require low VOC and low FOG characteristics

CB4190-2PET Physical Properties			
Thickness	Mils Liner/Unwind	MM Liner/Unwind	Microns Liner/Unwind
Adhesive	1.2/1.2	.0305/.0305	30.5/30.5
Carrier	0.5	.0127	12.7
Liners	4.0	.1016	101.6
Total Thickness	6.9	.1753	175.3
Performance Test	Test Method	Typical Values	
Loop tack	PSTC-16-Method A	Lbs./in.	Oz/in.
Stainless Steel	Backed with 2 mil PET	4.5	72
Peel Adhesion - 180° 2 mil PET Backed	PSTC-101-Method A	Lbs./in.	Oz/in.
30 minute dwell	Stainless Steel	3.5	56
24 hour dwell	Stainless Steel	4.5	72
Dielectric Strength	ASTM D 149-20	kV/mm	
Peak Voltage		41.3	
Shear	PSTC-107-Method A	Hours to Fail	
1 kg weight	72°F	300+	
Tensile	ASTM-D882	Lbs./in.	Oz./in.
MD/CD		10	160
Elongation	ASTM-D882	%	
MD		100	

Values given are typical and not for use in specification

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VOC Analysis Method: JIS-A 1801		
Substance	Values not to exceed [$\mu\text{g}/\text{m}^3$]	CB4190-2PET
Formaldehyde	100	6.1
Acetaldehyde	48	5.7
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 [$\mu\text{g}/\text{g}$]	CB4190-2PET
FOG	< 250	30

Fog Analysis Method: SAE J1756	Specification Requirements Gravimetric Fog, mg	CB4190-2PET
FOG		0.11

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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