

PERFORMANCE GUIDE

CB4190-72 Double Coated Tape

Version: 3 Date: 10/2023 Approved by: SRS

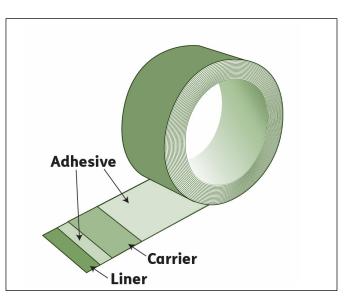
CleanBond™ LOW VOC Adhesive

Product Description

CB4190-72 consists of a .5mil PET carrier coated on both sides with 1.2 mils of a clean non-VOC, lowoutgassing and low-migratory aggressive acrylic pressure sensitive adhesive. The adhesive is protected by a two-side silicone 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: 1.2 mils LV840 LOW VOC Acrylic
- Liner: 72# White PCK
- Web Width: 54"



Features

- Low VOC –JIS A-1901
- Low FOG VDA278
- ISO 18916 Approved
- High shear acrylic adhesive
- High dielectric strength
- Moisture stable PCK liner

Benefits

- Non-outgassing and nonmigratory
- High temperature resistance
- Smooth adhesive profile
- Good adhesion to a most surfaces.
- Chemical & UV resistant
- Excellent handling and diecutting.
- 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

CB4190-72 Physical Properties				
Thickness	Mils CB4190-72			
Adhesive	1.2/1.2			
Carrier	0.5			
Liner	5.3			
Total Thickness	8.2			
Performance Test	Test Method	Typical Values		
Loop tack	PSTC-16-Method A	Lbs./in.	Oz/in.	
Stainless Steel	Backed with 2 mil PET	5.0	80	
Peel Adhesion - 180° 2 mil PET Backed	PSTC-101-Method A	Lbs./in.	Oz/in.	
30 minute dwell	Stainless Steel	5.0	80	
24 hour dwell	Stainless Steel	5.5	88	
30 minute dwell	ABS	4.7	70	
30 minute dwell	Polycarbonate	5.5	88	
30 minute dwell	HDPE	1.5	24	
Dielectric Strength	ASTM D 149-20	kV/mm		
Peak Voltage		48.8		
Shear	PSTC-107-Method A	Hours to Fail		
1 kg weight	72°F	300+		
5 lb weight	72°F	20		
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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Foam Bonding Performance				
Substrate	Application Method	Result		
EPDM	Room Temp with 50% compression	Good Adhesion		
Nitrile PVC	Room Temp with 50% compression	Strong Adhesion		
EVA Blend	Room Temp with 50% compression	Good Adhesion		
Polyether polyurethane Foam	Room Temp with 50% compression	Foam Destruction		
NBR-PVC	Room Temp with 50% compression	Foam Destruction		

Substance	Values not to exceed [μg/m³]	CB4190-72
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 [µg/g]	CB4190-72
FOG	< 250	30

Fog Analysis Method: SAE J1756	Specification Requirements Gravimetric Fog, mg	CB4190-72
FOG		0.11

• Custom liners, thicknesses, and widths available upon request

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SERVICE TEMPERATURE

Application:Above 50°F (10°C) for best performanceEnd Use:-40°F to 450°F (-40°C to 232°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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