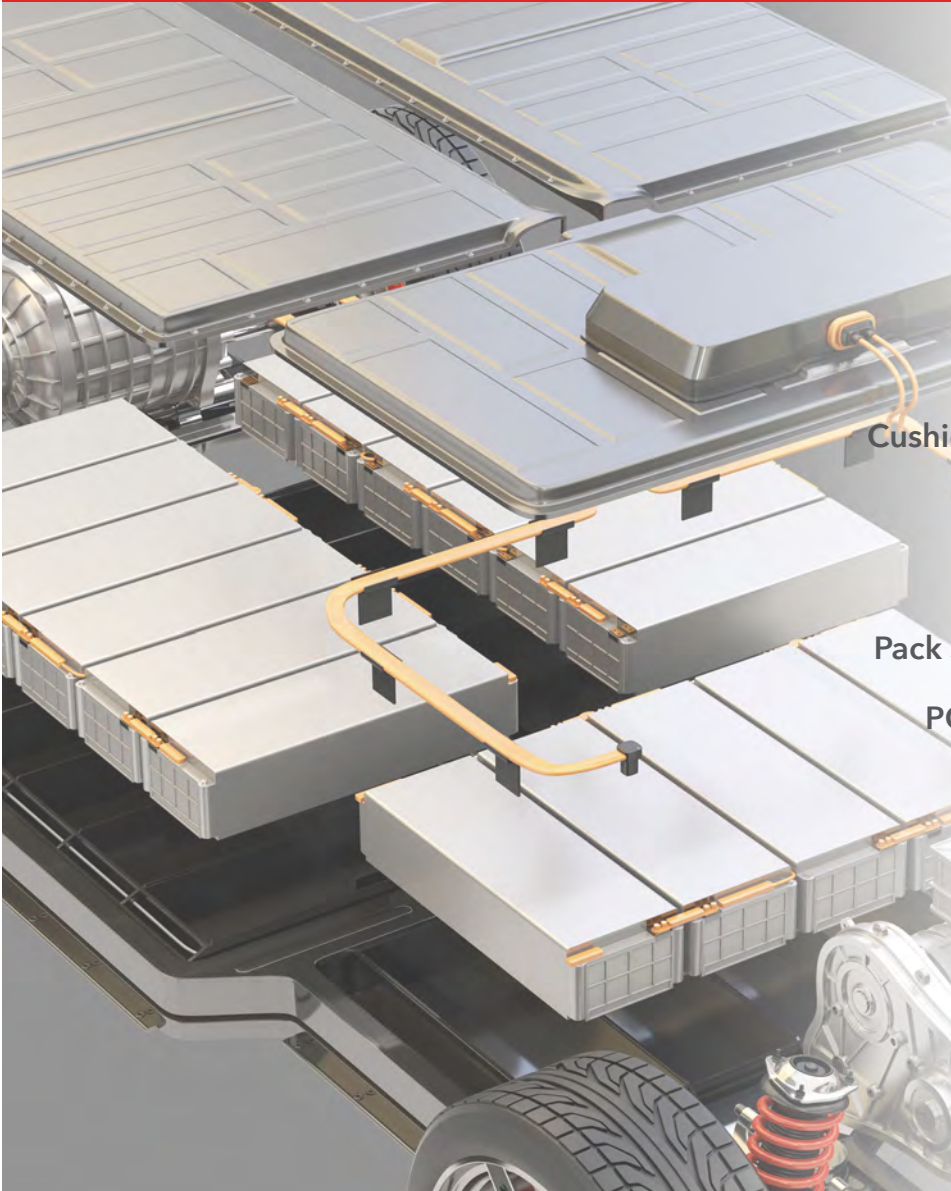


# Cleantape® for E-Mobility

Engineered Tapes & Laminates



Automotive

Bonding

Busbars

Cell Wrapping

Compression Pads

Cushioning & Dampening

Electrical Insulation

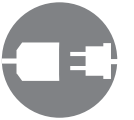
EMI & RF Shielding

Pack Sealing & Gasketing

PCK & Flexible Circuit

Thermal Runaway  
Protections

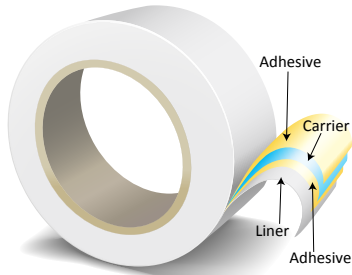
Thermal Interface



Cleanest adhesive tape offering available with versatile solutions to help optimize battery safety, performance, power density and streamline manufacturing. Our Cleantapes are uniquely suited for batteries and EVs applications. No VOCs, ultra-low outgassing & migratory properties allow for excellent compatibility, stability and long-term and performance inside the pack.

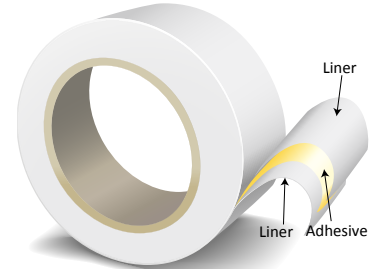
# Cleantape® for E-Mobility

## Engineered Tapes & Laminates



### Double-Coated Tapes

### Transfer Adhesives



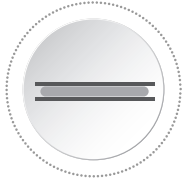
Double Coated Tapes											
Part Number	Adhesive	Type	Carrier	Coat Weight (mils)		Caliper (mils)	Liners	Minimum Breakdown Voltage (kVAC)	Performance Characteristics		
				Liner/Unwind	Adhesive & Carrier				Peel SS lb/in	Tack SS lb/sq.in	Shear hours
CB1100	LV790	Rubber	.5 mil PET	1.2/1.2	2.9	60# SCK/72# PCK	3.5	12.0	12.0	1000+	
CB1102	LV790	Rubber	.5 mil PET	2.0/2.0	4.5	60# & 80# SCK, 12pt Brd	4.0	12.0	12.0	1000+	
CB4161	LV860	LSE Acrylic	.5 mil PET	1.8/1.8	4.1	72# PCK	3.5	8.8	9.0	55+	
CB4180	LV820	Acrylic	.5 mil PET	1.2/1.2	2.9	72# PCK/80# NT PCK	2.5	8.5	6.5	85+	
CB4181	LV820	Acrylic	.5 mil PET	1.8/1.8	4.1	72# PCK/80# NT PCK	3.25	8.5	7.0	85+	
CB4182	LV820	Acrylic	.5 mil PET	2.4/2.4	5.3	72# PCK/80# NT PCK	3.5	9.5	7.0	85+	
CB4190	LV840	Acrylic	.5 mil PET	1.2/1.2	2.9	72# PCK	3.25	5.5	5.0	300+	
CB4190-2PET	LV840	Acrylic	.5 mil PET	1.2/1.2	2.9	2.0 PET liner x2	3.25	5.5	5.0	300+	
CB4192	LV840	Acrylic	.5 mil PET	2.4/2.4	5.3	72# PCK	3.25	6.5	8.0	300+	

Transfer Tapes									
Part Number	Adhesive	Type	Carrier	Coat Weight	Caliper	Liners	Performance Characteristics		
				mils	(mils)		Adhesive & Liner	Peel SS lb/in	Tack SS lb/sq.in
CF1091	LV790	Rubber	NA	1.8	6.5	78# SCK	12.0	12.0	1000+
CF1093	LV790	Rubber	NA	2.6	8.3	78# SCK	12.0	12.0	1000+
CF4062	LV860	LSE Acrylic	NA	2.0	9.8	72# PCK	9.0	9.2	55+
CF4082	LV820	Acrylic	NA	2.0	7.8, 8.1	72# PCK/80# NT PCK	9.5	5.5	85+
CF4083	LV820	Acrylic	NA	3.0	8.8, 9.1	72# PCK/80# NT PCK	9.5	7.0	85+
CF4084	LV820	Acrylic	NA	4.0	9.8, 10.1	72# PCK/80# NT PCK	9.9	7.0	85+
CF4092	LV840	Acrylic	NA	2.0	7.8	72# PCK	6.0	6.0	300+
CF4094	LV840	Acrylic	NA	4.0	8.8	72# PCK	6.5	7.2	300+

- Double liner options are available on acrylic products
- Custom constructions are available upon request
- For the most current information, visit [Mactac.com](http://Mactac.com)



- Excellent compatibility with various conductive inks, solders and circuitry components.



- High dielectric properties, and insulation properties



- Adhesion to a wide variety of materials including various types of films, foils, foams and thermal interface materials



- Capable of withstanding rigorous hot & cold temperature cycling.



- Withstands exposure to chemicals, organics solvents, cleaners, fuel types, hydrocarbon-based fluids, weak acids and alkalis



- Non-VOC - Meets JIS-A 1901



- Low Outgassing - meets E595 specifications



- Recognized for UL969 and CSA 22.2 No. 15



- **Application Temperature** Above 50°F (10°C) for best performance
- **End Use Temperature** -40°F to 450°F (-40°C to 232°C)\*based on adhesive



# Cleantape® for E-Mobility

## Engineered Tapes & Laminates

PCB & Flexible Circuit Bonding

Pack Sealing & Gasketing

EMI & Electrical Insulation

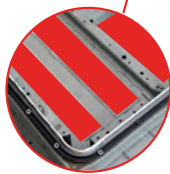


Busbars

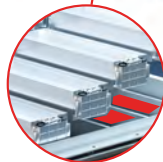


Cell Wrapping

Compression Pads



Cushioning & Dampening



Thermal Interface



Thermal Runaway Protection

For Regulatory Information, please visit [www.mactac.com](http://www.mactac.com) for all product regulatory compliance.  
For Quality information, please visit [www.mactac.com/quality](http://www.mactac.com/quality) for all manufacturing site ISO 9001 certificates.  
For Technical Data Sheets please visit [www.mactac.com/industrialtapes](http://www.mactac.com/industrialtapes).

Mactac is a member of the following organizations:  
Gasket Fabricators Association  
Pressure Sensitive Tape Council

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