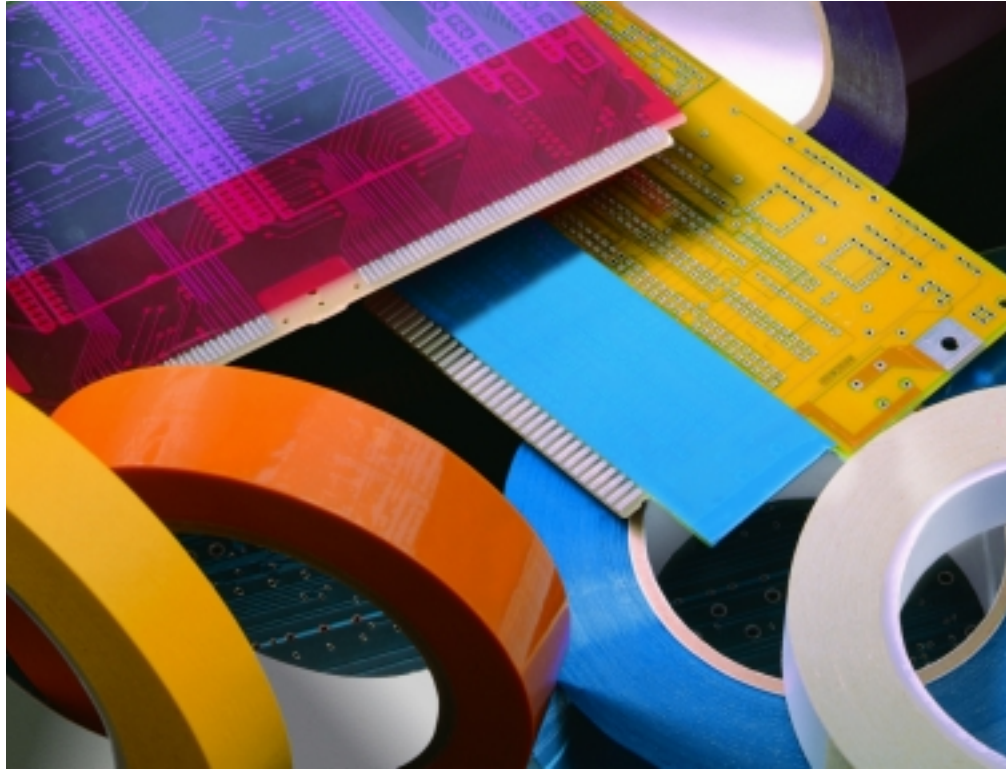


FEATURES/BENEFITS

- Prevents Plating Solution Undercutting
- Stands Up to Multiple Operating Cycles
- No Re-work Required
- No Adhesive Residue
- Greater Operator Safety
- Excellent Temperature & Chemical Resistance

CHR® PRESSURE SENSITIVE ADHESIVE TAPES



PRINTED CIRCUIT BOARD FABRICATION TAPES

M717 TIN LEAD STRIPPING PLATING TAPE

Plating tape M717 is specifically designed for Gold Tab Plating operations to mask off circuitry above the contact fingers. M717 has a thick and conformable adhesive which prevents leakage from stripping and plating chemicals. This product is used in the most demanding applications requiring high performance and close tolerances. M717 is specially cured and will not leave an adhesive residue, eliminating costly clean-ups. M716, which protects circuitry from caustic fumes, is an excellent complement to M717, and is attached above M717 on the circuit board during the plating process. M717 is available in red.

M716 FUME PROTECTION TAPE

Fume protection tape M716 protects the circuitry from chemical splashes and fumes during Gold Tab Plating operations. This cost-effective, low-adhesion tape has excellent chemical and high temperature resistance. Generally, M716 is used with tin lead stripping plating tape M717 during plating operations. M716 is available in violet.

M803 SOLDER MASKING OVER BARE COPPER (SMOBC) TAPE

M803 is designed for use in SMOBC processes. It is used in combination with a pre-applied protective solder mask and provides full protection to the exposed

holes in the board. M803 is applied at the plating line by either automated equipment or by hand, and serves as a fail-safe line of demarcation at the connector tabs. The tape is used in conjunction with three process options: (1) plating gold over bare copper circuitry, (2) plating gold over bare copper circuitry after solder mask is applied and (3) plating gold after solder mask application and solder leveling. The tape is constructed of silicone adhesive and polyester backing. M803 is easily removed and leaves no adhesive residue, eliminating re-work. M803 is available in blue.

M734 AND M788 AREA MASKING TAPES

M734 and M788 are low-cost substitutes for dry film in multilayer processing to protect copper. The tapes using natural rubber adhesives save as much as half the cost of silicone-based products. M788 is specially designed for thin core boards and flexible circuitry. Both tapes withstand high temperatures and chemicals. M734 is available in orange, and M788 is available in aqua.

C663 AND C690 HOT AIR LEVELING (HAL) TAPES

C663 and C690 are applied to mask gold fingers, tab areas, and other sections of printed circuit boards during the hot air leveling process. C663 uses a silicone adhesive for the most demanding HAL applications and C690 incorporates a natural rubber adhesive for less demanding and lower cost operations. C663 adhesive is specially formulated to hold down and protect the gold fingers during rigorous HAL operations, yet remove cleanly from the board without splitting or leaving adhesive residue. Its thin construction reduces the damming at the solder/tape butt line and is a proven effective mask in double wrap applications. These features provide lower labor costs for cleaning and increase product line efficiency. C663 is available in yellow and C690 is available in blue.

Physical Properties/Part #	C663	C690	M716	M717	M734	M788	M803	
Color	Yellow	Blue	Violet	Red	Orange	Aqua	Blue	
Adhesive System	Silicone	Rubber	Rubber	Silicone	Rubber	Rubber	Silicone	
Substrate	Polyester/ Paper	Polyester/ Paper	Polyester	Polyester	Polyester	Polyester	Polyester	
Function	HAL	HAL	Fume Protection	Gold Plating	Area & Fume Protection	Area & Fume Protection	Gold Plating	
Nominal Thickness:								
Backing	in (mm)	0.0065 (0.165)	0.0065 (0.165)	0.0010 (0.025)	0.0010 (0.025)	0.0010 (0.025)	0.0010 (0.025)	0.0010 (0.025)
Adhesive	in (mm)	0.0030 (0.076)	0.0025 (0.064)	0.0011 (0.028)	0.0028 (0.071)	0.0006 (0.015)	0.0005 (0.013)	0.0020 (0.051)
Total	in (mm)	0.0095 (0.241)	0.0090 (0.229)	0.0021 (0.053)	0.0038 (0.097)	0.0016 (0.041)	0.0015 (0.038)	0.0030 (0.076)
Nominal Adhesion Strength	oz/in (g/cm)	60 (661)	50 (551)	18 (198)	30 (331)	6 (66)	5 (55)	25 (276)
Nominal Tensile Strength	lbs/in (kg/cm)	25 (4.5)	—	25 (4.5)	25 (4.5)	25 (4.5)	25 (4.5)	25 (4.5)
Elongation	(%)	<10	—	100	100	100	100	100
Temperature Range	°F (°C)	-100 to 500 (-73 to 260)	-20 to 310 (-29 to 154)	0 to 325 (-18 to 163)	-100 to 350 (-73 to 177)	0 to 325 (-18 to 163)	0 to 325 (-18 to 163)	-100 to 350 (-73 to 177)

Important Note to Purchaser: Values shown are typical and are not to be used for writing specifications. All data is subject to change without notice. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risk and liability in connection therewith. Specifications subject to change without notice.

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