

M Series

1 MIL POLYESTER FILM/RUBBER ADHESIVE

Saint-Gobain Performance Plastics CHR® M-Series (1 Mil PET/Rubber Adhesive) are manufactured from polyester film with rubber pressure-sensitive adhesive.

Typical Properties

| Product Number | Adhesive Thickness (in.) | Total Thickness (in.) | Adhesion to Steel (oz./in.) | Insulation Class (°C) | Color |
|----------------|--------------------------|-----------------------|-----------------------------|-----------------------|---------|
| M54 | .0015 | .0025 | 45 | 130 | Yellow |
| M56 | .0015 | .0025 | 45 | 130 | Clear |
| M64 | .0015 | .0025 | 50 | 130 | Yellow |
| M716 | .0011 | .0021 | 18 | — | Violet |
| M734 | .0006 | .0016 | 6 | — | Orange |
| M788 | .0005 | .0015 | 5 | — | Aqua |
| M797 | .002 | .003 | 30 | — | Mustard |
| M851 | .002 | .003 | 15 | — | Green |
| M897 | .002 | .003 | 20 | — | Olive |

Values shown are typical. Certified test reports for writing specifications are available.

Applications—**M54, M56, M64, M716, M797, M851, M897:** offer an economical method to hold, insulate and/or protect various materials. **M54, M56, M64:** are often used in critical capacitor and coil applications. **M716:** is used as a fume protection tape for the manufacturing of printed circuit boards and designed to be used in conjunction with **M717, M737, M803** and **M849**. **M734, M788:** are created for use in multi-layer printed circuit boards manufacturing as an area mask tape.

Features/Benefits—**M54, M56:** can meet MIL-I-15126 MFT Type 2.5 specifications. **M56:** makes easy to apply electrical insulation and can meet UL Guide O ANZ2, File E51201 specifications. **M64:** is designed to be non-corrosive with excellent dielectric and insulation resistance qualities and makes easy to apply electrical insulation. It is manufactured with non-halogen containing materials, capable of meeting UL Guide O ANZ2, File E51201 and MIL-I-15126F-MFT Type 2.5 specifications. CSA Std. C22.2 Class 9052.30. **M716:** protects circuitry from chemical splashes and fumes. **M734, M788:** offer no build-up of adhesion properties after processing. **M797:** resists high temperatures of conformal coating operation, is silicone free, and creates a true masking line. **M851:** is designed to use as a flash mask protection tape in metal or composite bonding. **M897:** features a highly cross-linked pressure sensitive silicone adhesive system that eliminates adhesive legging and transfer in application and high-tack adhesive system offers masking protection.

The thermosetting rubber adhesive system offers excellent quick-stick properties and flag resistance, yet unwinds easily. The polyester backing resists damage from sharp edges. Polyester backings offer low-cost, effective holding for materials.

Operating temperature is 0 to 325°F, elongation % at break is 100, tensile strength is 25 lbs./in. and dielectric strength is 5000 volts. **M897** has an operating temperature of 0 to 350°F, and ESD controlled static charge of <50 for removal from roll and board.

Availability—**M54, M64:** are in master log form 72 yards long and 37" wide. **M56, M797:** are in master log form 72 yards long and 38" wide. **M851, M897:** is in master log form 72 yards long and 24" wide. All rolls can be slit 1/2" wide through master log width. **M716:** is in slit roll form. Standard roll length is 144 yards and widths are 1/2", 1", 1-1/2", 2" and 2-1/2". Use jumbo roll form for rewinding slitting. Special widths are available upon request. **M734, M788:** factory stock is manufactured 36" and 42" wide. It is re-rolled into 144 yard long master rolls for single knife slitting to make slit rolls from 1/2" wide through full width. **M54, M56, M64, M716, M897:** are available with or without a liner.

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