

**TAPE, POLYESTER - PRESSURE SENSITIVE
THERMOSETTING - ELECTRICAL****ESF-M3G173-A****1. SCOPE**

The material defined by this specification is a polyester film/polyester mat tape with thermosetting, pressure sensitive adhesive. It is rated for continuous operation at 130 °C.

2. APPLICATION

This specification was released originally for material used in the ignition coil.

3. REQUIREMENTS**3.0 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS**

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.3 CONSTRUCTION

The material shall consist of a polyester film/polyester mat, coated on one side with a non-corrosive thermosetting and pressure sensitive adhesive.

3.4 THICKNESS 0.152 - 0.229 mm
(ASTM D 1000)

3.5 BREAKING STRENGTH, min 52.5 N/mm width
(ASTM D 1000)

Ultimate Elongation, min 20%

Test Method: This shall be measured coincidentally with breaking strength.

Ultimate Elongation = $(L2 - L1)/L1 \times 100$

Where: L1 = Original Length

L2 = Length at Break

3.6 DIELECTRIC STRENGTH AT 23 +/- 2 °C
(ASTM D 1000)

Total Thickness Reading, min 4.0 kv

3.7 ADHESION TO STEEL, min 0.547 N/mm width
(ASTM D 1000)

3.8 ADHESION TO BACKING, min 120 N/m width
(ASTM D 1000)

Date	Action	Revisions
2006 01 19	Revised	Inserted 3.0; Deleted 3.1, 3.2, 3.3, 3.13, 4
1988 09 15	Released	107002-185 CF4S





3.9 COPPER CORROSION (FLTM BU 106-01)

No evidence of the characteristic green color of cupric chloride and/or the characteristic blue-black color of copper sulfide on the copper plates.

3.10 CHLORIDES, max 64 ppm
(ASTM D 202)

3.11 pH 6.5 - 7.5
(ASTM D 202)

3.12 THERMOSETTING VALUE 2 h at 0.5 kg
(FLTM BU 107-01)