

CLOTH, TYPE "E" GLASS, "B" STAGE POLYIMIDE-RESIN-IMPREGNATED  
181 Style Fabric, Low-Flow Addition-Cure Resin  
For Press Cure at 40 - 100 psi (275 - 690 kPa) or Vacuum/Autoclave Processing

1. SCOPE:

1.1 Form: This specification covers one type of glass cloth impregnated with a heat-reactive, addition-cure, thermosetting, polyimide-resin system, the resin to be supplied in a "B" stage condition for low flow and press cure at 40 - 100 psi (275 - 690 kPa) or vacuum/autoclave processing.

1.2 Application: Primarily for laminated structural parts requiring high strength and long-term heat resistance up to 230°C (450°F) and short-term exposure to 290°C (555°F).

2. APPLICABLE DOCUMENTS: See AMS 3845.

3. TECHNICAL REQUIREMENTS:

3.1 Basic Specification: The complete requirements for procuring the cloth described herein shall consist of this document and the latest issue of the basic specification, AMS 3845.

3.2 Materials:

3.2.1 Reinforcement: Shall conform to AMS 3824, Style 181, 1581, or 7781.

3.2.2 Resin: Shall conform to AMS 3619.

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3.2.3 Storage Life: The impregnated cloth shall have a shelf life of not less than three months from date of shipment when stored or shipped in a barrier container and maintained between 4° and 15°C (40° and 60°F).

3.3 Properties of Uncured Impregnated Cloth: Cloth, as-supplied, shall conform to the following requirements; in addition, when specified, tack and drape shall be as agreed upon by purchaser and vendor:

3.3.1 Volatile Content and Resin Solids: Volatile content shall be not greater than 10%. Devolatilized resin content shall be as specified by purchaser.

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