



Technical Data 96-580

Bedford Materials Co., Inc.  
 7676 Allegheny Rd  
 Manns Choice, PA 15550  
 Phone: (814) 623-9014  
 Fax: (814) 623-9199  
 E-Mail: [bedmat@bedford.net](mailto:bedmat@bedford.net)

## NEMA – 5J04 Tan

### Varnished Glass Cloth Class F For 155°C Applications

#### Application for 5J04 Tan

Bedford Materials 5J04 Class F varnished glass cloth consists of a straight weave, continuous-filament glass fabric, coated with Class F (150°C) heat-reactive resin. It is recommended in electrical apparatus when full Class F temperature rating is required.

#### Advantages

**Excellent high-temperature properties** for superior Class F performance.

**Flexibility** is combined with good dielectric and mechanical strength.

**Imparts extra life** to apparatus in continuous use at temperature up to 155°C.

**Especially recommended for layer insulation** in dry type transformers.

#### Specifications (Typical Values)

Color.....	←-----Tan-----→				
Thickness (total inches).....	0.003	0.007	0.010	0.012	0.015
Thickness Glass Fabric Base (inches).....	0.002	0.004	0.007	0.007	0.010
Weight, Approximate (lbs./sq. yd.).....	0.22	0.50	0.72	0.90	1.12
Tensile Strength, Warp (lbs./in. of width).....	60	100	300	300	300
Dielectric Strength, ¼ in. Dia. Electrodes, Short Time Method (volts/mil)					
Condition A (as received).....		1,400	1,400	1,400	---

#### Ordering Information

Supplied in 36, 50 and 100 yard rolls approximately 36 inches wide, on 2 inch ID cores. Also in master rolls approximately 350-400 yards long. May be slit to width as specified. Specify quantity, thickness, width and roll length.



Technical Data 96-580

Bedford Materials Co., Inc.  
 7676 Allegheny Rd  
 Manns Choice, PA 15550  
 Phone: (814) 623-9014  
 Fax: (814) 623-9199  
 E-Mail: [bedmat@bedford.net](mailto:bedmat@bedford.net)

## 5J44 Tan (Low Cost) Varnished Glass Cloth Class F For 155°C Applications

### Application for 5J44 Tan

Bedford Materials 5J44 varnished glass fabric consists of low cost glass fabric coated with a full Class F insulating varnish. It is designed for use as layer insulation at temperatures of 155°C.

### Advantages

**Combines low cost glass fabric with Class F varnish** for upgrading equipment at low cost.

**Excellent flexibility** is combined with good mechanical strength.

**Recommended for layer insulation** in dry type transformers.

### Specifications (Typical Values)

Color.....	←-----Tan-----→			
Thickness (total inches).....	0.005	0.007	0.010	0.012
Thickness Glass Fabric Base (inches).....	0.004	0.004	0.004	0.004
Weight, Approximate (lbs./sq. yd.).....	0.28	0.44	0.58	0.80
Tensile Strength, Warp (lbs./in. of width).....	150	150	150	150
Dielectric Strength, ¼ in. Dia. Electrodes, Short Time Method at room temperature (volts/mil).....	1,450	1,450	1,450	1450

### Ordering Information

Supplied in 36 widths, trimmed, or 38 inch widths, untrimmed in 36, 50 and 100 yard rolls on 2 inch ID cores. Also in master rolls approximately 350-400 yards long. May be slit to widths specified. Specify quantity, thickness, width and roll length.



Technical Data 96-580

Bedford Materials Co., Inc.  
 7676 Allegheny Rd  
 Manns Choice, PA 15550  
 Phone: (814) 623-9014  
 Fax: (814) 623-9199  
 E-Mail: [bedmat@bedford.net](mailto:bedmat@bedford.net)

## 5J47 Tan (Low Cost) Varnished Glass Cloth Class F For 155°C Applications

### Application for 5J47 Tan

Bedford Materials 5J47 varnished glass cloth consists of .007 inch L.C. glass fabric coated with a full Class F insulating varnish. It is recommended for class F service where heavy glass fibers are required, and for temperatures to 155°C.

### Advantages

**Combines advantages of heavy and lower cost** glass fabric coated with class F insulating varnish for economical high temperature (155°C) layer insulation.

**High mechanical strength.**

**Heavy fibers resist breakage** and reduce loss in coil winding.

### Specifications (Typical Values)

Color.....	←-----Tan-----→		
Thickness (total inches).....	0.010	0.012	0.015
Thickness Glass Fabric Base (inches).....	0.007	0.007	0.007
Weight, Approximate (lbs./sq. yd.).....	0.7	0.82	1.05
Tensile Strength, Warp (lbs./in. of width).....	270	270	270
Dielectric Strength, ¼ in. Dia. Electrodes, Short Time Method at room temperature (volts/mil).....	1,300	1,100	900
After 15 Min. in Hot Oil at 105°C (volts/mil)	1,300	---	---

### Ordering Information

Supplied in 36 and 48 inch widths, trimmed, or 38 and 50 inch widths, untrimmed in 36, 50 and 100 yard rolls on 2 inch ID cores. Also in master rolls approximately 350-400 yards long. 48 and 50 inch widths on special order only. Also may be slit to widths specified. Specify quantity, thickness, width and roll length.

Bedford Materials has no control over the final applications of the product by others, therefore, the information contained herein is intended as a general guide to product use and should not be construed as a warranty.