

Bedford Materials Co., Inc. 7676 Allegheny Rd Manns Choice, PA 15550 Phone: (814) 623-9014 Fax: (814) 623-9199

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# NEMA - 5JF04 Tan

# Varnished Glass Cloth Extremely Flexible Class 180C Life Rating – 50,000 hrs. at 180°C

### **Application for 5JF04**

Bedford Materials 5JF04 Class consists of NEMA straight weave continuous filament glass fabric coated to specified thickness with a flexible insulating varnish. Meets requirements of MIL-I-17205, grade O.

#### Advantages

Excellent for taping, layer, wrapper and phase insulation in electrical equipment wherever flexibility, and high dielectric strength are required.

**Used on original equipment and repair** for armature and stator coils, transformers and other applications where a flexible and high temperature electrical barrier is needed.

## **Specifications** (Typical Values)

Color		←			
Finished Thickness (inches)		0.007	0.010	0.012	0.015
Thickness, Glass Fabric Base (inches)		0.003	0.007	0.007	0.007
Weight, Approximate (lbs./sq. yd.)		0.41	0.69	0.84	1.02
Tensile Strength, Warp (lbs./in. of width) WARP		100	300	300	300
	FILL	70	200	200	200
Gurley Stiffness (MG)	MD	180	500	500	500
	CMD	120	400	400	400
Dielectric Strength (V/M) C-96/23/0		1,600	1,300	1,250	1,200
(V/M) C-96/23/96		900	500	500	500
(V/M)(Bent) C-168/23/50		1,500	1,000	1,000	1,000
(V/M)(Bent) E-168/130		1,800	700	700	700
(V/M)(Bent) E-168/180		1,000	400	N/A	N/A
Power Factor (60 cycle) C-96/23/0		0.05	0.05	0.05	0.05
C-96/23/96		0.20	0.20	0.20	0.20
Dielectric Constant (60 cycle) C-96/23/0	)	5.0	5.0	5.0	5.0
C-96/23/9	96	8.0	8.0	8.0	8.0
Toluol Resistance (immersion)		No Effect After 3 Minutes		es	

### **Ordering Information**

Supplied in 36 yard long rolls approximately 36 inches wide on 1 ½ inch ID cores and in master rolls approximately 350-400 yards long. Also supplied in tape slit to width as specified. Other thicknesses available on negotiation.



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# NEMA - 5JF44 Tan

# Varnished Glass Cloth Extremely Flexible Class 180C Life Rating – 50,000 hrs. at 180°C

### **Application for 5JF44**

Bedford Materials 5JF44 Class is a straight weave .004 inch thick (L.C.) continuous filament glass fabric coated to specified thickness with a flexible insulating varnish. Meets requirements of MIL-117205, grade O.

#### Advantages

Excellent for miscellaneous electrical insulation application where flexibility and good thermal aging properties are desired.

An economical flexible insulation for taping layer, wrapper, and phase applications.

## **Specifications** (Typical Values)

Color		←				
Finished Thickness (inches)		0.007	0.010	0.012	0.015	
Thickness, Glass Fabric Base (inches)		0.004	0.004	0.004	0.004	
Weight, Approximate (lbs./sq. yd.)		0.44	0.65	0.76	0.86	
Tensile Strength, Warp (lbs./in. of width) WARP		150	150	150	150	
	FILL	120	120	120	120	
Gurley Stiffness (MG)	MD	170	220	400	425	
	CMD	85	150	375	350	
Dielectric Strength (V/M) C-96/23/0		1,400	1,300	1,300	1,300	
(V/M) C-96/23/96		800	800	800	800	
(V/M)(Bent) C-168/23/50		1,300	1,200	1,200	1,200	
(V/M)(Bent) E-168/130		1,600	1,500	1,500	1,500	
(V/M)(Bent) E-168/180		900	800	N/A	N/A	
Power Factor (60 cycle) C-96/23/0		0.05	0.05	0.05	0.05	
C-96/23/96		0.20	0.20	0.20	0.20	
Dielectric Constant (60 Hertz) C-96/23/0		5.0	5.0	5.0	5.0	
C-96/23/9	6	8.0	8.0	8.0	8.0	
Toluol Resistance (immersion)		No Effect After 3 Minutes				

## **Ordering Information**

Supplied in 36 yard long rolls approximately 36 inches wide on 1 ½ inch ID cores and in master rolls approximately 350-400 yards long. Also supplied in tape slit to width as specified. Other thicknesses available on negotiation.

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