



Technical Data 96-580

Bedford Materials Co., Inc.
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NEMA – 8176-1 Tan

Varnished Glass Cloth

For 130°C Applications

Application for 8176-1

Bedford Materials 8176-1 varnished glass cloth and tape are made from straight weave, continuous-filament glass fabric, coated with a flexible, oleoresinous varnish. This fabric complies with all NEMA specifications. The relatively high thermal conductivity of the glass cloth dissipates heat quickly and thus virtually eliminates overload damage in motors and transformers. The 8176-1 material is particularly recommended for Class B wrapper and layer applications, such as coil phase, barrier, ground, and slot-cell insulations.

Advantages

Excellent dielectric strength combined with extremely good oil and moisture resistance.

Class B insulation.

High flexibility combined with good mechanical properties.

Meets all NEMA requirements.

Specifications (Typical Values)

Thickness, Treated (Inches).....	0.003	0.005	0.007	0.010	0.010
Thickness (base fabric).....	0.002	0.003	0.003	0.003	0.007
Width (inches).....	36	36	36	36	36
Weight, Approximate (lbs./sq. yd.).....	0.22	0.42	0.50	0.72	0.75
Tensile Strength, Warp (lbs./in. of width).....	60	100	100	100	250
Dielectric Strength, Minimum Average, Short Time					
Method, ¼ in. Dia. Electrodes (volts/mil)					
Condition-					
24/23/50% R.H.....	1,200	1,200	1,200	1,100	450
168/130°C, Bent.....	1,100	950	950	900	---

Ordering Information

Supplied in standard tape widths on 1 inch ID Cores in 36 and 72 yard rolls, and in rolls 36 inches wide in 36, 50, and 100 yard lengths on 2 inch ID cores. Also available in master rolls, approximately 350-400 yards long. Specify quantity, thickness of base glass wanted when .010 treated thickness ordered.



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8176-8 Tan (Low Cost)

Varnished Glass Cloth For 130°C Applications

Application for 8176-8

Bedford Materials 8176-8 low cost varnished glass cloth and tape consist of a straight weave, continuous-filament glass fabric, coated with an oleoresinous varnish. It has the same properties as the NEMA grade fabric except for the fact that the weave is looser resulting in a slightly lower mechanical strength. The 8176-8 fabric is recommended for Class B use in coil, phase, barrier, ground, and slot-cell insulation.

Advantages

Excellent tensile strength at an economical price.

Good dielectric strength.

Oil and moisture resistance.

Class B insulation.

Specifications (Typical Values)

Thickness, Treated (Inches).....	0.007	0.010	0.012
Thickness of Fabric Base – L.C. Type (inches).....	0.004	0.004	0.004
Weight, Approximate (lbs./sq. yd.).....	0.44	0.58	0.80
Tensile Strength, Warp (lbs./in. of width).....	150	150	150
Dielectric Strength, ¼ in. Dia. Electrodes, Short Time Method, (volts/mil) Condition as Received.	1,630	1,630	1,400
96 hours at 96% Relative Humidity at Room Temperature....	1,175	900	700
Dielectric Strength, ¼ in. Dia. Electrodes, Step-by-Step Method, (volts/mil) Condition as Received.	1,190	1,190	1,000

Ordering Information

Supplied in standard tape widths in 36 and 72 yard rolls on 1 inch ID cores, and 36 inches wide in 36, 50, and 100 yard rolls. Also furnished in master rolls approximately 350-400 yards long.

Bedford Materials has no control over the final application 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.