

# VINYLGLAS® Sleeving

Class 130°C • Vinyl-Coated Fiberglass Sleeving  
 UL Recognized Component: VW-1 (FR-1), File No. E51556  
 UL Recognized Component: 600 Volt, 105°C, File No. E66526 (Grade A only).  
 Canadian Standards Association: File No. 37065



## Description:

VINYLGLAS® Sleeving consists of a heat-treated fiberglass braid, coated with a firmly bonded plasticized polyvinylchloride film. The vinyl compound is formulated for continuous operation at Class 130°C temperatures.

VINYLGLAS® sleeving is rated VW-1 by Underwriters Laboratories, Inc. (File No. E51556) and can be furnished with printed legend on the spool head to identify this rating on request. Grade A is UL rated for 600V, 105°C.

## Features:

VINYLGLAS® sleeving is extremely flexible and has excellent abrasion and cut-through resistance. It readily withstands normal varnish baking cycles. Its bright NEMA standard colors provide easy color coding.




## Applications:

VINYLGLAS® sleeving is used for supplementary insulation on transformer, motor, generator and resistor leads. Other applications include radio, television and other electronic circuits where it can be pushed back to permit soldering.

## Applicable Specifications:

ASTM D372, NEMA TF-1, MIL-I-003190/2, MIL-I-21557

## Standard Colors:

Sizes # 24 - 2 :   
 Sizes # 1 - 7/16" :   
 Sizes # 1/2" - 1 1/2" : 

## Other Colors:

Available on special order subject to factory quotation and acceptance.

## Packaging Options:

Spools of continuous lengths  
 Cut to customer specifications

## Dimensions:

Size	Inside Diameter				Standard Package
	Maximum		Minimum		
	Inch	(mm)	Inch	(mm)	
24	.027	(.66)	.020	(.51)	500
22	.032	(.81)	.025	(.64)	500
20	.039	(.99)	.032	(.81)	500
18	.049	(1.24)	.040	(1.02)	500
17	.054	(1.37)	.045	(1.19)	500
16	.061	(1.55)	.051	(1.30)	500
15	.067	(1.70)	.057	(1.45)	500
14	.074	(1.88)	.064	(1.63)	500
13	.082	(2.08)	.072	(1.83)	250
12	.091	(2.31)	.081	(2.06)	250
11	.101	(2.57)	.091	(2.31)	250
10	.112	(2.84)	.102	(2.59)	250
9	.124	(3.15)	.114	(2.90)	250
8	.141	(3.58)	.129	(3.28)	250
7	.158	(4.01)	.144	(3.66)	250
6	.178	(4.52)	.162	(4.11)	250
5	.198	(5.03)	.182	(4.62)	250
4	.224	(5.69)	.204	(5.18)	250
3	.249	(6.32)	.229	(5.83)	250
2	.278	(7.06)	.258	(6.55)	250
1	.311	(7.90)	.289	(7.34)	100
0	.347	(8.81)	.325	(8.26)	100
3/8"	.399	(10.13)	.375	(9.53)	100
7/16"	.462	(11.73)	.438	(11.13)	100
1/2"	.524	(13.31)	.500	(12.70)	100
5/8"	.655	(16.64)	.625	(15.88)	100
3/4"	.786	(19.96)	.750	(19.05)	100
7/8"	.911	(23.14)	.875	(22.23)	100
1"	1.036	(26.31)	1.000	(25.40)	100

## Performance Characteristics:

Dielectric Breakdown (ASTM D372) Grade	Typical Test Results — ASTM D372			
	Requirements		Test Results	
	Min. Avg. Volts	Min. Indiv. Volts	Min. Avg. Volts	Min. Indiv. Volts
A - C-48/23/50 C-96/23/96	8,000	6,000	9,500	8,600
	50% of above		5,750	5,100
B - C-48/23/50 C-96/23/96	4,000	2,500	4,800	4,400
	1,200	750	2,900	2,500
C-1 - C-48/23/50 C-96/23/96	2,500	1,500	3,000	2,600
	Not Applicable		Not Applicable	

Property	Requirements	Results
Aging	No cracking after 96 hrs. exposure at 150°C	No cracking
Oil Immersion	No disintegration or swelling after 24 hrs. in ASTM oil #2 @ 105°C	No disintegration or swelling
Flammability (Method B)	Shall require at least 45 seconds to burn 1 inch	Self-extinguishing
Thermal Endurance	Extrapolated temperature 130°C for 15,000 hrs.	130°C