

POLIURETHANE FIBERGLASS INSULATING SLEEVINGS
Breakdown Voltage

POL4: min. 4000 Volt

Thermal class: F

Operating. Temp. -30°C +155°C

Short time peacks +185°C

Packing

0.5-4.0 200 meters

5.0 – 16.0 100 meters

18 – 24 50 meters

26 – 30 25 meters

Colors

Dark Yellow (natural)

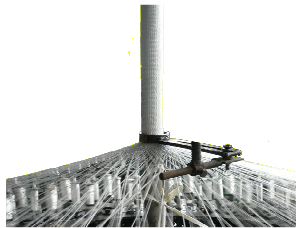
Other colors on request

POL4 is conform to Rohs standards

Notes:

The values given above are believed to be accurate and given as a matter of information only. As usage conditions are beyond our control we suggest the customer to confirm values and product compatibility prior to its use. We don't guarantee nor accept any responsibility for any particular usage.

POL4 is an insulating sleeve made of braided fiberglass yarn coated with poliurethane resin. It belongs to F insulation thermal class that means its working temperature can reach up to 155°C with peacks at 185°C. Widely used in electric motors and harness.


DIMENSIONS:

Diameter	Tolerance	Wall thick. POL4
0.5	+0.3 - 0	0.45±0.12
0.8	+0.3 - 0	0.45±0.12
1.0	+0.3 - 0	0.45±0.12
1.5	+0.3 - 0	0.45±0.12
2.0	+0.3 - 0	0.45±0.12
2.5	+0.3 - 0	0.45±0.12
3.0	+0.3 - 0	0.47±0.12
3.5	+0.3 - 0	0.47±0.12
4.0	+0.3 - 0	0.47±0.12
4.5	+0.3 - 0	0.47±0.12
5.0	+0.3 - 0	0.50±0.12
5.5	+0.3 - 0	0.50±0.12
6.0	+0.3 - 0	0.50±0.12
7.0	+0.3 - 0	0.50±0.12
8.0	+0.3 - 0	0.55±0.12
9.0	+0.3 - 0	0.55±0.12
10.0	+0.3 - 0	0.65±0.12
12.0	+0.5 - 0	0.65±0.12
14.0	+0.5 - 0	0.65±0.12
16.0	+0.5 - 0	0.65±0.12
18.0	+0.5 - 0	0.75±0.15
20.0	+0.5 - 0	0.75±0.15

Main Properties:

Properties	Result
Heating test Resistance	After several hours at 200°C there is no cracking or detachment of the coating. The original color should be clearly recognizable.
Mechanical properties	It has excellent pliability and flexibility. Its mechanical strength allow this sleeving to resist to the main solicitation of electric motor industry.
Low temp. resistance	After 60 minutes at -10°C no cracking or detachment must be visible
Chemical resistance	Good resistance to benzene and olis

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POL4 - Fiberglass + Poliurethane sleeving

POL4 is a high quality fiberglass + poliurethane sleeving specially created as a connection insulation for electrical motors. The wall strength ensures a high resistance even in severe conditions while the special resin allows to keep a good conformability.

Thermal properties:

Thermal class: F
Working temp. -30°C +155°C
Peaks at 185°C

Packaging:

from mm. 0.5 up to mm. 4
rolls of mt. 200

from mm. 5 up to mm. 16
rolls of mt. 100

Colour:

Amber yellow

Breakdown voltage:

dry rupture (100°C) 4000 Volt

Applications:

- Home appliances
- Motors and transformers
- Light industry
- General electrical applications

Dimensions:

Inside Diam.mm.	Tolerance on diam.	Wall thickness
0,5	+ 0.3 / -0	0,45 ±0,12
1	+ 0.3 / -0	0,45 ±0,12
1,5	+ 0.3 / -0	0,45 ±0,12
2	+ 0.3 / -0	0,45 ±0,12
2,5	+ 0.3 / -0	0,45 ±0,12
3	+ 0.3 / -0	0,47 ±0,12
3,5	+ 0.3 / -0	0,47 ±0,12
4	+ 0.3 / -0	0,47 ±0,12
5	+ 0.3 / -0	0,50 ±0,12
6	± 0.3 / -0	0,50 ±0,12
7	± 0.3 / -0	0,50 ±0,12
8	± 0.3 / -0	0,55 ±0,12
9	± 0.3 / -0	0,55 ±0,12
10	± 0.3 / -0	0,65 ±0,15
12	± 0.5 / -0	0,65 ±0,15
14	± 0.5 / -0	0,65 ±0,15
16	± 0.5 / -0	0,65 ±0,15

Main properties:

Properties	Results
After termal aging	No cracking or bendino after 168 ore a 260°C
	Minimum breakdown voltage must be at least half of nominal after 168 ore a 260°C



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MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product identification	POL4 - 4000 Volt
Company Identification	Isolcavi sas di Ghidoni Anna Via Abitazione, 5/1 – 40050 Monteveglio (BO) Italy Tel. +39 051 83.24.85 Fax +39 051 83.26.01

2 COMPOSITION / INFORMATION ON INGREDIENTS

Product description: Impregnated or coated insulating fiberglass sleeving, made of glass fibre
Identification of components:
- Glass Fibre
- Impregnating or coating varnish or resin
Components contributing to the hazard: No hazardous components.

3 HAZARD IDENTIFICATION

The product poses, as it is, no known hazard to human health or to the environment.
See n. 5 for hazards in case of fire.

4 FIRST AID

In case of contact with skin: in case of reaction in sensitive individuals, wash with water for several minutes.
In case of contact with eyes: in case of reaction in sensitive individuals, wash with water for several minutes.
If swallowed: seek medical advice.
If inhaled: not specifically concerned.

5 FIRE FIGHTING MEASURES

Extinguishing media: powder/Carbon dioxide (CO₂)/Foam/Water fog
Extinguishing media not to be used: none
Auto flammability of components: over 400°C or not applicable
Special risk resulting from the exposure to combustion gases: this material may release fumes or more or less toxic gases in the event of fire. Exposure to these gases of fumes may pose health risk.
Special protective equipment for fire-fighting personnel: wear self-contained breathing apparatus.

6 MEASURES IN CASE OF ACCIDENTAL LOSS

Individual protective equipment: no special measures required.
Environmental precautions: no special measures required.
Clean-up/absorption method: no special measures required.

7 HANDLING AND STORAGE

Handling: no special measures required.
Storage: preferably store far from fire and inclement weather.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure limit for humans: none, in normal working conditions.
Special measures for reducing exposure: none in normal working conditions.
Personal protection: do not eat, drink or smoke. Wash hands after handling the material. Keep away from food and beverages. Avoid contact with eyes.

9 PHYSICAL AND CHEMICAL PROPERTIES

Form: solid Color: several pH value: not concerned Initial boiling point: not applicable Flash point: not applicable	Explosivity hazard: not explosive Explosivity limits: not applicable Vapour pressure: not applicable Density: not applicable Solubility: not applicable
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10 STABILITY AND REACTIVITY

Conditions to avoid: no decomposition if used as prescribed. Materials to avoid: no known during normal working conditions. Hazardous decomposition products: none during normal working conditions.
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11 TOXICOLOGICAL INFORMATIONS

Acute toxicity: not concerned. Local effects: in certain sensitive individuals, may cause slight and brief irritation of the skin and ocular mucous membranes. Sensitization: not concerned.
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12 ECOLOGICAL INFORMATIONS

Non-biodegradable material. Non-toxic in water. Action on the ozone layer: not available

13 DISPOSAL CONSIDERATIONS

Partially recyclable. Product disposal information: comply with local regulations. Packaging disposal information: comply with local regulations.

14 TRANSPORT INFORMATIONS

Transport is not restricted.

15 REGULATORY INFORMATIONS

This material is not classified as hazardous for the user; respect general rules regarding safe and health.

16 OTHER INFORMATIONS

The product must be used and/or installed by qualified and trained personnel. This MSDS completes the technical data sheets but does not supersede them. The information given herein is based on extent of our knowledge of the product on the publishing date. The information given herein is offered in good faith as accurate. Moreover, users should be aware of the possible hazard incurred when a product is used for any purpose other than its intended use. In no way it relieve the user from knowing and applying all texts governing his/her activity. It is the user's sole responsibility to take the necessary precautions associated with the use of the product. All of the regulatory provisions mentioned are provided to assist the end-user in fulfilling his/her obligations when using a danger product. This list must not be considered as exhaustive. It does not stop the user from making sure that he/she complies with the written obligations other than those previously cited and which rule the fact of keeping and using the product for which hs/she is the sole responsible person.
