



# PEI

**PITTSBURGH ELECTRICAL INSULATION**  
MANUFACTURER | CONVERTER | DISTRIBUTOR

800 Martha Street, Munhall, PA 15120

TECHNICAL DATA

## Polyglas™ Surge Rope

High quality surge rope stock designed specifically for bracing of motor coils to prevent distortion of the windings. Easily and inexpensively installed, it has a high tensile strength braided glass, and is fully impregnated with a catalyzed thermo-setting resin. It is designed for structural applications requiring a rigid insulating and high mechanical strength material. This material is engineered to withstand an operating temperature of 220°C. This product meets Westinghouse specification 41324AP.

An untreated version is also available. This version is very popular in VPI or Dip and Bake applications, where adequate resin impregnation will occur during the resin processing procedure. This product is the actual base glass material used in the treated version. It is constructed of texturized glass rovings encased with an overbraid of fiberglass. The complete fiberglass construction assures the untreated surge rope will hold up in applications up to 260°C. Upon varnish or resin impregnation, the finished cured surge rope will take on the temperature rating of the varnish or resin that is used to treat the equipment. Unlike treated surge rope, the untreated surge rope has no shelf life limitations.

### Physical Properties

|                                    |             |
|------------------------------------|-------------|
| <b>Resin Type</b>                  | Polyester   |
| <b>Resin Content Cured</b>         | 30% Nominal |
| <b>Temperature Class</b>           | 220°C/428°F |
| <b>Shelf Life at 40°F</b>          | 6 Months    |
| <b>Shelf Life at 40°F or Below</b> | 12 months   |

### Cure Cycle

|                    |             |
|--------------------|-------------|
| <b>150°C/300°F</b> | 25 Minutes  |
| <b>135°C/275°F</b> | 40 Minutes  |
| <b>125°C/257°F</b> | 150 Minutes |

### Sizes Available

|      |
|------|
| 1/8" |
| 1/4" |
| 3/8" |
| 1/2" |
| 5/8" |
| 3/4" |
| 1"   |