

TECHNICAL DATA

VIDACORD® BG, BP, TG, TGVF & TGVH - Tying & Bracing Cords

DESCRIPTION

The Vidacord® range consists of round braided and twisted glass and polyester (PET) cords available in the following grades:

| Grade | Construction/Base Material | Resin Type | Temperature Class |
|----------------|----------------------------|------------------------|-------------------|
| Vidacord® BG | Braided 'E' glass yarn | / | 220°C (Class C) |
| Vidacord® BP | Braided polyester yarn | / | 155°C (Class F) |
| Vidacord® TG | Twisted 'E' glass yarn | / | 220°C (Class C) |
| Vidacord® TGVF | Braided 'E' glass yarn | Isophthalate polyester | 155°C (Class F) |
| Vidacord® TGVH | Braided 'E' glass yarn | Silicone | 180°C (Class H) |

TYPICAL CHARACTERISTICS

In general, the tensile strength of the braided glass cord is lower than a twisted type, but a braided cord is often preferred when a more flexible handling characteristic is required.

The glass cords exhibit virtually no shrinkage or extension and the basic mechanical properties are almost independent of temperatures up to 250°C.

Untreated glass cords can be unpleasant to handle due to skin irritation. Varnish treatment will reduce the irritation hazard and also, by 'lubricating' the glass fibres, improve flexibility and tensile strength.

Both isophthalate and silicone varnish treatments are available, enabling them to be matched with the impregnating system which is subsequently used on the laced machine end- winding.

The braided polyester cord does not cause any irritation to the operator's skin. . A polyester cord will exhibit shrinkage when exposed to temperatures above 100°C, but this characteristic is sometimes desirable for consolidation purposes when lacing coil overhangs.

APPLICATIONS

The Vidacord range of cords are designed specifically for tying bracing in the following applications:

- Generator end-windings
- Electric motor end-windings
- Heating element supports (Glass types)
- General purpose engineering

PROPERTIES & DIMENSIONS

| Diameter mm | Breaking load @ 20°C (Kgs) | | | | | | | | | |
|----------------|----------------------------|--|-----|--|-----|--|------|--|------|--|
| | BG | | BP | | TG | | TGVF | | TGVH | |
| 0.80 | 15 | | 20 | | 18 | | 20 | | 20 | |
| 1.60 | 35 | | 40 | | 35 | | 40 | | 40 | |
| 2.40 | 50 | | 100 | | 90 | | 120 | | 120 | |
| 3.20 | 85 | | 130 | | 125 | | 145 | | 145 | |
| 4.80 | 110 | | / | | 310 | | 340 | | 340 | |
| 6.40 | / | | / | | 435 | | 450 | | 450 | |

PACKAGING & SUPPLY

On cardboard reels, length dependant on diameter.

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