



PLANT PURCHASING SPECIFICATION BHOPAL

BP 25779

REV NO. 04

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FLEXIBLE VARNISHED GLASS BRAIDED SLEEVING (TEMP. INDEX130)

**SUPERSEDES
BP 25779 Rev.03**

1. GENERAL:

This specification governs the quality of a flexible varnished glass braided sleeving of circular section, braided from 'E' grade glass fibre yarn, impregnated with flexible synthetic resin varnish. The material shall have temperature index of at least 130.

2. APPLICATION:

Used for winding embedded temperature detector leads on AC Machines etc.

3. COMPLIANCE WITH NATIONAL STANDARDS:

There is no Indian Standard covering this type of material.

4. DIMENSIONS AND TOLERANCES;

4.1 Sizes :

Bore diameter and length of the sleeving shall be specified on the order.

4.2 Standard Bore Diameter & Tolerances :

4.2.1 Standard Bore Diameter :

0.75, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 8, and 10 mm.

However any other bore diameter can also be ordered.

4.2.2 Tolerances:

Bore Diameter (mm)		Tolerance (mm)
Above	Upto & incld.	
-	0.75	- 0.00 + 0.25
0.75	2.5	± 0.25
2.5	-	± 0.50

4.3 Wall Thickness:

0.6 mm, Min.

0.8 mm, Max.

Revision : Reviewed & Brought upto date

Issued by :

STANDARDS AND MATERIALS GROUP
TECHNICAL SERVICES DEPARTMENT

Rev. 04

Date : 10.10.2007

Date of first Issue : April, 1986



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5. COLOUR:

Black or yellow as specified on the order. However any other colour can also be ordered.

6. FINISH:

Sleeving shall be made from yarn, free from defects likely to cause irregularities and be uniform in appearance, reasonably smooth and free from internal and external irregularities. The coating material shall be uniform and continuous, and shall adhere firmly to the braid.

7. SAMPLE FOR TESTS:

10 metre length of sleeving shall be supplied for testing and approval.

8. TEST METHODS:

Unless otherwise specified, the tests shall be conducted to IEC : 60684 - 2.

9. PHYSICAL PROPERTIES:

9.1 Bending :

9.1.1 As Received :

No sign of cracking, detachment of varnish or delamination shall be visible within 5 minutes of bending.

9.1.2 After Heat Ageing :

No sign of cracking, detachment of varnish or delamination shall be visible within 5 minutes of bending and the colour shall remain clearly recognizable.

10. ELECTRICAL PROPERTIES:

10.1 Electric Strength (Proof) in air :

10.1.1 At Room Temperature (Above 3 mm bore dia only) : 2 kV.

10.1.2 At 130 ± 2 deg.C : 1 kV.

10.2 Insulation Resistance in Air at Room Temperature : 1000 Meg - Ohms, Min.

11. CHEMICAL PROPERTIES :

11.1 Acidity (As Received) : 7 mg KOH/gm of sample, max.



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11.2 Stability of Coating :

There shall be no sign of the coating running after 72 hours of ageing at $100 \pm 2^\circ \text{C}$.

11.3 Rate of Burning (Gauge Lengths 25 mm) : 45 seconds, Min.

Also, if the flame extinguishes before the flame front reaches the lower gauge mark, then the specimen shall be deemed to have passed the test.

11.4 Identification of Coating :

The coating shall be synthetic resin varnish of temperature index at least 130 when identified by infra-red spectrophotometer or by any conventional method.

12.1 TEST CERTIFICATES:

Unless otherwise specified, three copies of test certificates shall be supplied with each consignment.

In addition, the supplier shall ensure to enclose one copy of test certificate along with their despatch documents to facilitate quick clearance of the material.

The test certificate shall bear the following information:

BP 25779 : Flexible Varnished Glass Braided Sleeving (Temp. Index 130).
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BHEL Order No.

Batch/Lot No.

Test values obtained/certificate for compliance for clause 4 to 6 and 9 to 11.

13. PACKING AND MARKING:

The sleeving shall be suitably packed to prevent from contamination and damage in transit. Each package shall be marked with the following information:

BP 25779 : Flexible Varnished Glass Braided Sleeving (Temp. Index 130).

BHEL Order No.

Manufacturer's Name and Grade.

Batch/Lot No.

Bore Diameter and Length.

Date of Manufacture.