



PLANT PURCHASING SPECIFICATION BHOPAL

BP 25693

REV NO. 02

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GLASS FIBRE ROVINGS

SUPERSEDES
BP 25693 Rev.01

1. GENERAL:

This specification governs the quality of glass fibre rovings preferably silane treated made from low-alkali 'E' glass intended for use with Epoxide resins as well as with polyester resins. The glass rovings shall be free from oil and grease spots, stains and other contaminations.

2. APPLICATION:

The material may be used for the insulation of studs, bolts etc. and for the manufacture of stator winding rings and support ring for electrical machines.

3. COMPLIANCE WITH NATIONAL STANDARDS:

There is no Indian Standard covering this type of material.

4. TEST METHODS:

The tests shall be conducted as specified against each clause.

5. SAMPLE FOR TEST:

100 gms of sample shall be supplied for testing and approval purposes from each lot.

6. DIMENSIONS AND TOLERANCES:

6.1 Filament Diameter : 0.014 mm, unless otherwise specified.

6.2 Nos. of Filament Per Strand : 300 unless otherwise specified.

6.3 No. of Strands / Roving :

Shall be stated on order. Generally the number of ends are 16.

7. PHYSICAL PROPERTIES:

7.1 Appearance : Shall not be streaked or stained and shall be free from oil and grease spots and other contaminations

7.2 Moisture Content (IS 11320) : 0.3 % Max.

7.3 Fineness of Cord (IS 11320) : 4800 Tex.

Revision : Reviewed & Brought upto date

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7.4 Compatibility with Resin System :

Glass Rovings should have suitable treatment to make them compatible with epoxy and polyester resin. However silane treatment is preferred.

8. CHEMICAL PROPERTIES:

8.1 Glass Content : 98%, Min.

8.2 Conductivity of 5% aq. Extract : 1.25 μ S/m (125 micromhos/cm), Max.

8.3 pH of 5% aq. Extract : 7 to 9.

9. 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 the test certificate along with their despatch documents to facilitate quick clearance of the material.

The test certificate shall bear the following information.

BP 25693 : Glass Fibre Rovings

Rev.02

Our Order No.

Batch / Lot No.

Grade No.

Test values obtained/certificate for compliance for clause 6 to 8.

10. PACKING AND MARKING:

The glass rovings shall be supplied on cheeses sealed in moisture proof polyethylene bags, packed individually in card board cartons and crated in such a manner as to give adequate protection during transit.

Each container shall be clearly marked with the following information:

BP 25693 : Glass Fibre Rovings.

Our Order No.

Manufacturer's Name and Grade.

Batch/Lot No.

Roving count, Filament diameter and details of the strand construction.

Date of Manufacture.

Net Weight & Gross Weight.

Test Certificate Reference.