

## FORMAT FOR SYNOPSIS OF INDIAN STANDARDS



### Number and Title of the Indian Standard:

IS 17297:2019      Textile glass -- Staple fibres or filaments -- Determination of  
/ISO 1888:2006      average diameter

Doc TXD 40 (14017)

### Scope:

This International Standard specifies longitudinal-profile and transverse-section methods for determining the average diameter (i.e. the average value of actual diameters) of staple fibres or filaments in a textile glass product.

This diameter must not be confused with the nominal diameter which is used in the designation of yarns and materials manufactured from these yarns and corresponds to the average diameter but rounded to the nearest whole number.

### Salient features of content:

This standard prescribes two methods for determination of average diameter

#### Method A: Longitudinal profile

##### Principle

Fibres or filaments placed in a liquid medium having a refractive index differing from that of the textile glass are viewed in profile under a microscope and the diameter measured.

#### Method B: Transverse section

##### Principle

A transverse section of a yarn that has been impregnated with resin and cured is viewed under a microscope and the diameter of a given number of fibres or filaments in the yarn is measured.

### Types/Grades/Classes, if any covered in the standard:

Not applicable.