

FORMAT FOR SYNOPSIS OF INDIAN STANDARDS

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Number and Title of the Indian Standard:

IS 17301:2019 **Textile glass – Yarns –Determination of breaking force and**
/ISO 3341:2000 **breaking elongation**

Doc TXD 40 (14021)

Scope:

This International Standard specifies a method for the determination of the tensile breaking force and elongation at break of glass yarns taken from packages.

The method is applicable to various types of glass yarn (single, folded, cabled, strands, structures without twist, rovings, etc.). It is basically intended for single, folded and cabled glass yarns having a diameter of less than 2mm, or a linear density lower than 2000 tex, taken from packages. Heavier yarns may be also tested providing the test conditions are acceptable to all interested parties.

The method is not applicable to glass yarns which, in equilibrium with the standard atmosphere and under a pre-tension of 5mN/tex, are elongated by more than 0.0 %. Such yarns can be tested using a lower pre-tension (for example 2.5 mN/tex or 1 mN/tex), acceptable to all interested parties. This would occur mainly when dealing with staple-fibre yarns.

Salient features of content:

The breaking force and the elongation at break are determined by elongating a specimen by suitable mechanical means until rupture. Elongation at a specified force, or alternatively the force at a specified elongation, may also be determined if required.

The value of the breaking force per unit linear density of the yarn, i.e. the breaking strength, may also be calculated if requested.

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

Not applicable.