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Sample location for fiber glass mat sheets

1. Scope

This practice covers the location from which samples are taken from a sheet of fiber glass mat used as a sample test unit for physical property determination.

2. Summary of method

This practice details the location of all samples in relation to the sheet of mat and to each other.

3. Significance

This arrangement of sample locations is distributed in a manner designed to represent cross-web and down-web variations in the area covered by the sample of the fiber glass mat for each physical property to be tested.

4. Procedure

4.1 Remove all damaged layers of mat from the outside of the roll to be sampled. In addition, remove at least two undamaged layers and discard. Obtain sample unit from the next layer of mat. Cut sample unit(s) from the full width of the roll and of sufficient length (or number) to enable all samples to be cut from adjacent lengths (convolutions) of the roll.

4.2 Cut test specimens be cut from the sample unit at the locations indicated in Fig. 1 (a to e) to the dimensional tolerance specified in each of the individual test methods.

4.3 If the width of the mat is in excess of 36 in. (91.4 cm), the lateral spaces between samples should be proportionately increased to assure representative sampling across the full width of the sheet.

5. Sample cutting template

5.1 A metal sample cutting template may be prepared to facilitate sample cutting from any specific web. Stainless steel sheet (10 gauge) has been found suitable for templates and the dimensions of openings should be cut

to within 0.010 in. (0.25 mm). Slots, 0.25 in. (6.4 mm) long and 0.032 in. (0.8 mm) wide, should be cut at each corner of each opening to facilitate cutting of sharp corners by a standard utility knife or single-edged razor blade.

5.2 A typical template for sampling from a 36-in. (91.4-cm) wide web is shown in Fig. 2. Two or three sheets can be cut simultaneously to provide the desired number of test specimens. Other geometries are acceptable provided they accomplish the purpose of described in Section 3 and provide the size and number of samples specified in the test method.

6. Report

Report that sampling location complied with the requirements of this method, or, if different than specified, report the actual sample location and reason for deviation.

7. Precision

A statement of precision is not applicable for this standard practice.

8. Keywords

Fiber mats, Glass fibers, Sampling

9. Additional information

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