

KES

Resin Felt Test Method

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1. Scope of Application

This standard shall be applied for the resin felt test method.

2. Organism

Resin felt is to obtain needed shape by heat plate pressing after mixing rough hair, yellow yam, and phenol (Thermosetting resin).

3. Testing Method

(1) Weight

Sample 5 specimens of 100 x 100 mm from the same lot. Scale-weigh each weight by 1 / 1000 g, and convert it to kg / m².

(2) Thickness

Measure the thickness with a vernier calipers at more than 5 spots on resin felt of the same lot. Indicate it with its average (mm).

(3) Visual Density

Measure the length, width, thickness and weight of specimen. Calculate the visual density for more than 5 specimens. Have the average.

$$\text{Visual density (g / cm}^3\text{)} = \frac{\text{Weight (g)}}{\text{Length (cm) x width(cm) x thickness (cm) of specimen}} \quad \text{①}$$

(4) Amount of Resin Contents

The amount of resin that falls for 1 minute shall be W_1 . The amount of rough hair here shall be W_2 . Have the amount of resin contents with following expression.

$$\text{amount of resin contents (\%)} = \frac{\text{Amount of resin (}W_1\text{)}}{\text{Amount of rough hair (}W_2\text{)}} \times 100 \dots\dots\dots \text{②}$$