

TEST METHOD

Dry Diameter of Water Blocking Yarns

1. PURPOSE OF TEST

To measure the estimated dry diameter of Geca Tapes water blocking yarns and binders.

2. TEST APPARATUS

- ✓ Test cup
- ✓ Ram
- ✓ Displacement transducer (Note: combined force of ram and displacement transducer is 80 ± 0.5 grams)

3. TYPICAL SETUP



4. TEST PREPARATION

- ✓ Cut a minimum of 3 yarn samples of 60 ± 2 cm length
- ✓ Be sure that the samples are in good condition and have not been damaged or contaminated in any way

5. TEST CONDITIONS

Ambient laboratory conditions, typically:

- ✓ Temperature of $23 \pm 2^\circ\text{C}$
- ✓ Humidity of $50 \pm 5\%$

6. TEST PROCEDURE

- ✓ Put the ram in the empty test cup
- ✓ Place the displacement transducer piston on the ram anvil
- ✓ Zero the displacement transducer readout
- ✓ Remove the displacement transducer and ram
- ✓ Place the 60 cm sample of the first yarn sample neatly on the bottom of the test cup making a spiral as shown in the photograph above
- ✓ Place the ram on top of the yarn sample without applying any additional pressure
- ✓ Place the piston of the displacement transducer on the ram anvil and record the change in the results table below
- ✓ Repeat the process for the two remaining samples

7. RESULTS

The calculated average of the three measurements is the approximate dry yarn diameter.

Item	Measurement	Units
Sample 1		mm
Sample 2		mm
Sample 3		mm
Average		mm

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