

## Pilling Resistance - Fact Sheet

The formation of pills on textiles is generally one of the highest causes of customer complaints and returns.

The term pilling refers to entanglements of fibres and filaments that work loose from the fabric and yarn structure during wear and washing and drying, forming dense balls or “pills”, standing proud of the fabrics surface so that they cast a shadow.

A number of test methods are available to measure the susceptibility of a textile product to form pills. All tests can be conducted before and after laundering in accordance with standard wash test processes.

<p><b>Test Code: B3.2</b> Based on method: ISO 12945-1 Estimated lead time: 3 working days</p> <p><a href="#">Pilling - Pillbox test</a></p>		<p><b>Pilling Resistance - Pillbox method</b></p> <p><i>This method is applicable to all knitted fabrics and woven fabrics having a soft finish.</i></p>
	<p><b>Martindale Pilling Resistance</b></p> <p><i>This method is applicable to most fabric types, it is generally not recommended for weft knitted fabrics. Although developed by the Woolmark Company, this method is frequently used for many textile items including upholstery, sheeting and apparel from all fibre types.</i></p>	<p><b>Test Code: A3.1</b> Based on method: TWC 196 Estimated lead time: 3 working days</p> <p><a href="#">Pilling - Martindale test</a></p>
<p><b>Modified Martindale - Pilling Resistance</b></p> <p><i>Also referred to as Swiss Pilling, this method is generally applicable to all types of fabric types, including weft knitted products.</i></p>	<p><b>Test Code: A3.1_ISO</b> Based on method: ISO 12945-2 Estimated lead time: 12 working days</p>	
<p><b>Pilling Resistance - Random Tumble method</b></p> <p><i>This method is generally applicable to all types of woven and knitted apparel fabrics. Whilst not in common use in Australian specifications, some international retailers do request this.</i></p>		<p><b>Test Code: T07C</b> Method: ASTM D3512 Estimated lead time: 10 working days</p>

**Sample Size required for testing:** 5 specimens 15cm X 15cm are tested, preferably from a submitted sample of 50cm X full width.

### For further information:

Additional information on each test is available by clicking on the above links.

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