

## **: I want to perform cyclic testing on my static testing machine. How fast can I go?**

Written by Nick Thorpe

Monday, 02 April 2007 07:28 - Last revised Tuesday, 03 April 2007

---

The ability to perform cyclic testing on a static testing machine depends on the machine's maximum speed, the compliance of the specimen and the type of test. Most static machines are capable of low frequency tension or compression cyclic tests at a moderate rate of several Hz when testing stiff specimens. I understand you manufacturer high performance elastic fabrics, a good software platform such as Tinius Olsen's QMat for textiles comes as standard with a number of pre written cyclic tests conforming to specific Retailer and International testing standards, no additional hardware or software is required. For example BS EN 14704-1 Determination of the elasticity of fabrics specifies a cyclic speed of 500 mm/min for knits and only 100 mm/min for wovens. When testing stretch fabrics I would not recommend that you use speeds in excess of 500 mm/min for this area of testing. The speed should be determined by the end use of the product and/or what is specified in a specific method speed can affect the final results extracted by software, so always be led by the method you need to test by.