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Bow Pull-off Test

Specification

The customer was a supplier to major UK clothing retailer Marks & Spencer, who stipulate that all fasteners and attachments must be tested to failure.

The strength of the joint/bow was critical to ensure that it met design tolerance and safety levels, particularly in baby clothing. A motorised unit with a test speed was defined at 200mm/min as the system needed to be simple to use in a production environment and provide consistent results.

Solution

The lingerie material was clamped in a 'Double Action Vice Grip' with 50mm wide faces coated with non-slip rubber to enhance gripping strength.

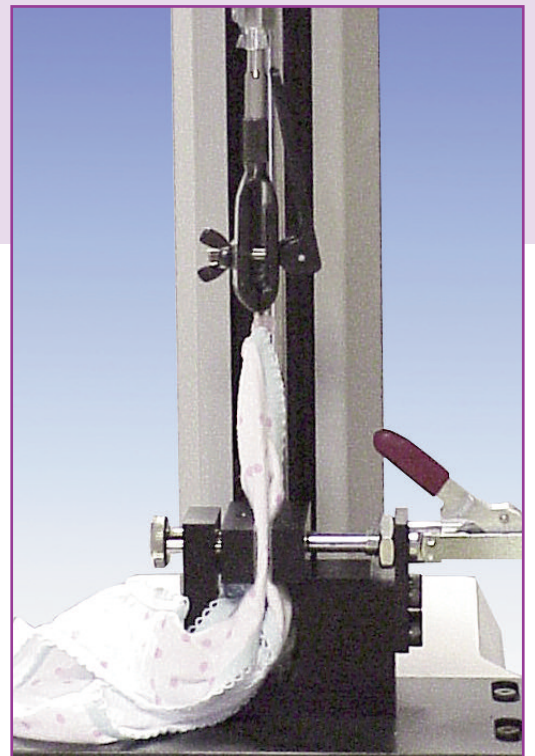
The loop of the bow was hooked over the extended peg hook and was ready for testing. The joint or bow was pulled at 200mm/min until destruction. The peak tension load to remove or break the bow was recorded at the fast data-aquisition speed of 1200Hz.

System

- 1000N UltraTest motorised test stand
- 500N AFG
- Extended peg hook
- Double action vice grip

Supplied to

S.R. Gent
Dewhirst Childrenswear
Coats Viyella



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