Ford Motor Company

FORD LABORATORY TEST METHOD BN 102-06

WEBBING FRICTION ASSESSMENT

Application

This procedure is used to measure the friction force exerted between the seat belt webbing and the pillar loop.

Apparatus

Acetal Bar

Source: Autoliv Kolb Limited
Chandler Road
Chichester
West Sussex, England

The Acetal Bar should be mounted with its longitudinal center line rotated by 22.5° from the vertical (see Figure 1).

Tensile Machine with Graphic Recorder

Weight - 1.0 kg

Conditioning and Test Conditions

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 °C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

Procedure

1. Cut a webbing sample of 1200 +/- 5 mm length.

2. Attach a 1.0 +/- 0.01 Kg weight to one end of the webbing.

Date	Action	Revisions
2001 09 17	Revised	Editorial – no technical change A. Cockman
1992 02 07		

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3. Attach the other end of the webbing to the load cell making an angle of 45 +/- 1° with the vertical (see Figure 1).

4. Starting from rest, the weight is to be lifted 545 +/- 5 mm, stopped and then lowered the same distance at a speed of 200 mm/minute.

5. Repeat this cycle ten times and on the eleventh cycle the force in the load cell is to be graphically recorded.

6. A new bar is to be used for each test. Repeat steps 1 - 5 twice using new sample of webbing and new Acetal Bar.

Evaluation

Record the average of the maximum and the average of the minimum force at 50 mm, 250 mm and 450 mm for the three tests.

Chemicals, materials, parts, and equipment referenced in this document must be used and handled properly. Each party is responsible for determining proper use and handling in its facilities.

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