

TE-06 Footwear Rubber Upper Flexing Tester

Purpose:

Apparatus is intended for determination of resistance to flexing of a rubber upper.

Apparatus is made according to the requirements and apply for the tests according to the following standards:

EN ISO 20344; c. 6.5.2 Personal protective equipment – Test methods for footwear – Determination of resistance to flexing of a rubber upper

Description of the device:

The device consists of mobile metal frame with 12 adjustable stationary part with grips 25 mm in width for holding one end of the test piece in a fixed position and a similar reciprocating part for holding the other end of the test piece (test pieces are arranged in two equal groups so that one group is being flexed while the other is being straightened, thus reducing the vibration in the device), central unit with LCD display for control and result reading, on/off buttons and safety power turn off.

Dimension: (L) 700 x (W) 500 x (H) 900 mm;

Weight: 100 kg;

Power supply: 400 V ~ 50 Hz;

Operating principle:

Insert the test specimens in the stationary and reciprocating grips when these are at their greatest separation and then carry out the required number of flex cycles. Central unit stops and record the number of completed flex cycles (complete to – and – fro movement of the reciprocating grip is one flex cycle). The ambient temperature during testing shall be $23\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$. After completing required number of flex cycles remove the test piece and examine for pinholes and cracking.

