



Contact heat resistance (HRO)

Objective

This test verifies the sole's resistance to contact heat, so as not to burn the foot.

Principle

A rectangular test piece is taken from the tread.

An iron is heated to 300°C.

The iron is applied to the specimen under a pressure of 20 kPa for one minute.

After resting for ten minutes, the specimen is bent around a mandrel to check for cracks.

The specimen must neither melt during the test nor crack when flexed around the mandrel.

Type: [Physical and mechanical test](#)

Standards: [EN ISO 20344 §8.9](#) / [EN ISO 20345 §6.4.1](#)

Product: [Footwear](#)

Criteria: [Mechanical risk](#) / [PEE](#)

Component: [Outsole](#)

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