NECURON® 675
BLOCK MATERIAL - CASE STUDY

Customer Reference

Manufacturing of prototype models for shoe production NECURON® 675

Customer:	Customer in Brazil
Products used:	NECURON® 675
Industry:	Shoe industry
Application:	Manufacturing of master models for shoe production

1. Issue

For the production of shoe soles, a prototype is manufactured at first which is described as a pilot. This pilot is used for visual assessments in the design team.

After a positive evaluation and approval by the design team, a die for the „original sole“ is produced.
In most cases, this pilot is made of a solid material that is neither in functionality nor in appearance similar to the real sole material.
A flexible material similar to a rubber sole is ideal for this.
Advantages of a flexible pilot material:

- Visual evaluation as it is similar to the normal rubber sole
- The pilot sole made of flexible material can be attached to the pilot body more easily than rigid material.
- The processing of the flexible pilot sole requires less material, since the sole angles can be produced due to the better flexibility.

2. Solution / Result

NECURON® 675 was developed to meet these requirements.
In terms of flexibility, NECURON® 675 is very similar to rubber and contains all the advantages of a polyurethane board.
In this way, the design team has the opportunity to evaluate a pilot in a much more functional way, which is much closer to the original sole.
NECURON® 675 has significant advantages for surfaces with radii.

NECURON® 675 Key Features

- flexible at ambient temperature
- excellent surface finishing
- good mechanical resistance
- great dimensional stability
- low tool wear during the machining process
- medium density
- very competitive due to the lower cost compared to the rigid materials

© **NECUMER GmbH** ▪ Industriestraße 26 ▪ D-49163 Bohmte
Tel +49 5471 9502-0 ▪ Fax +49 5471 9502-99 ▪ info@necumer.de ▪ www.necumer.de

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Application Images