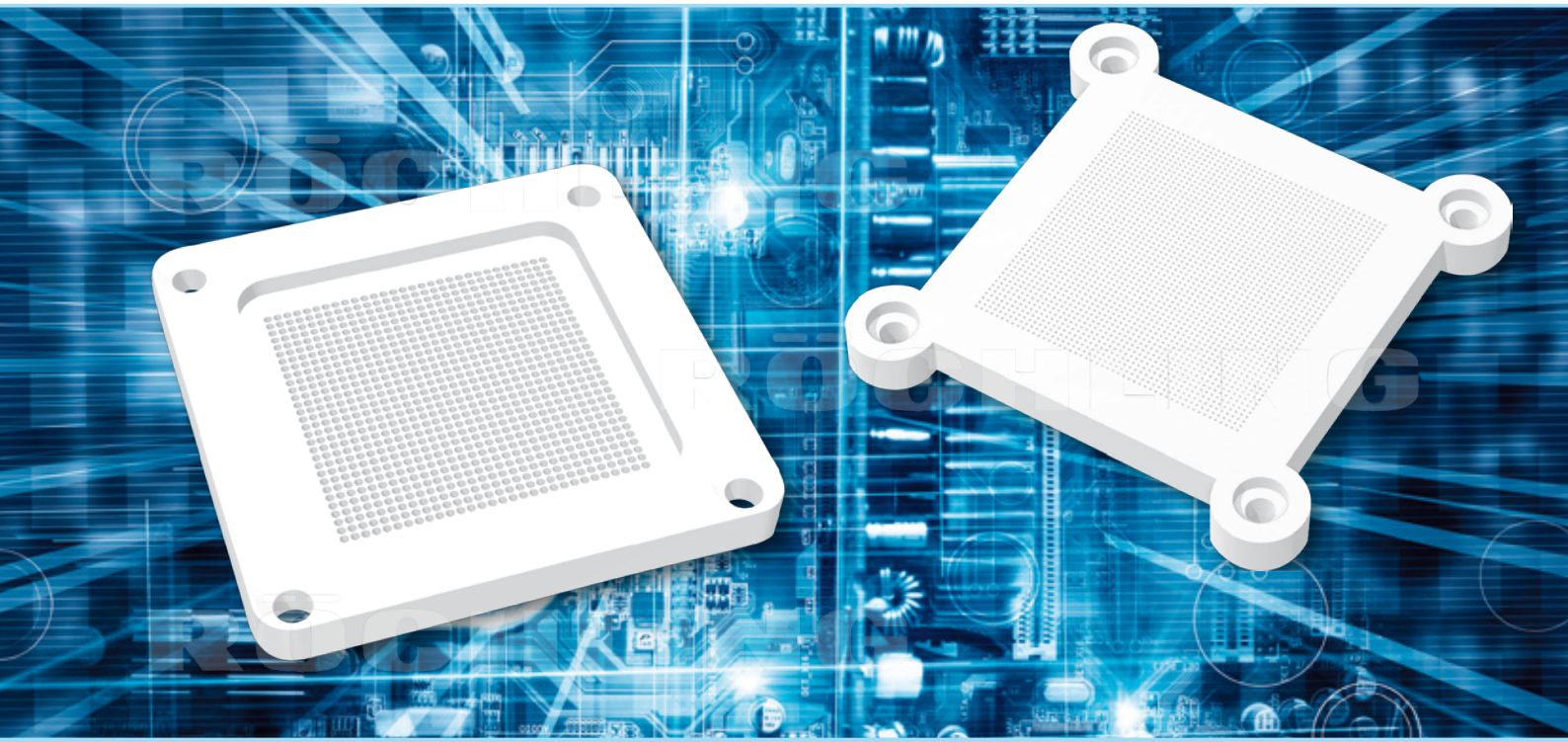
RÖCHLING



EtroX® V

For high-precision test sockets

› Up to 0.1 mm small boreholes

Electronics

EtroX® V

New premium material for the machining of high-precision test sockets

The new premium material EtroX® V. Developed for the high demands in the electronics industry. EtroX® V is particularly suitable for machining high-precision test sockets with extremely small boreholes. These have a **minimum diameter of up to 0.1 mm** and are very well formed with only minimal burr formation. With this high precision EtroX® V increases the reliability and cost-effectiveness of the time-consuming and cost-intensive production of equipment for testing electronic components.

Increase the reliability and economic efficiency

High precision

EtroX® V is particularly suitable for machining high-precision test sockets with extremely small boreholes. These have a minimum diameter of up to 0.1 mm and are **very well formed with only minimal burr formation.** The risk of individual, defective boreholes and thus defective components is reduced. Even a single faulty borehole would lead to a complete defect in the machined part. These errors are usually only noticed during the final inspection by manual or optical tests.

Precise positioning

The softer a material is, the higher the likelihood that the positioning of individual holes will deviate. Optical position tests carried out by customers on test sockets made of EtroX® V have demonstrated especially **precise positioning of boreholes.** This underscores the low stress level and excellent machinability of the new premium material.

High-precision: EtroX® V is particularly suitable for machining high-precision test sockets with extremely small boreholes. These have a minimum diameter of up to 0.1 mm and are very well formed with only minimal burr formation.

Tested and approved by leading manufacturers

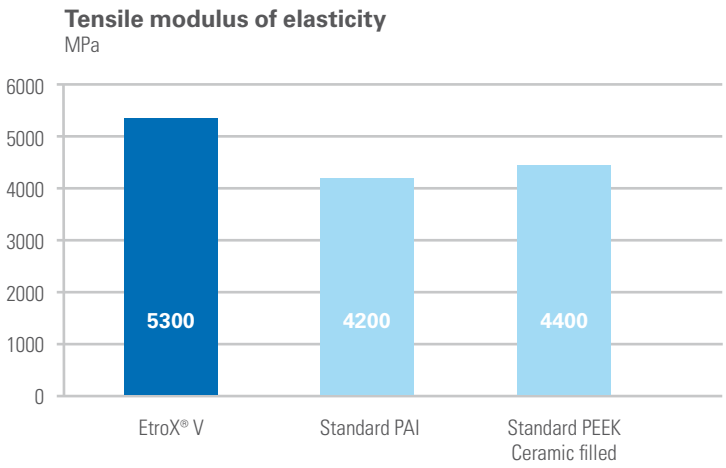
EtroX® V
Compare the performance

Leading manufacturers of electronic components have tested the properties of the new material EtroX® V and have approved it for the quality control of their electronic components after evaluating the results.

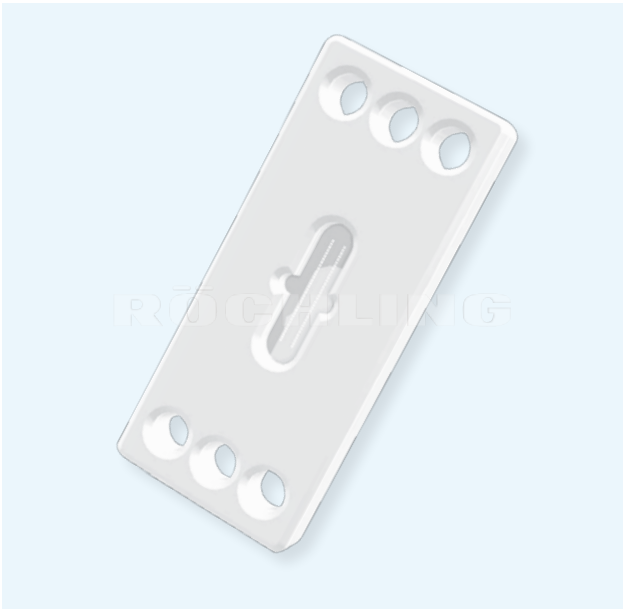
Proven benefits

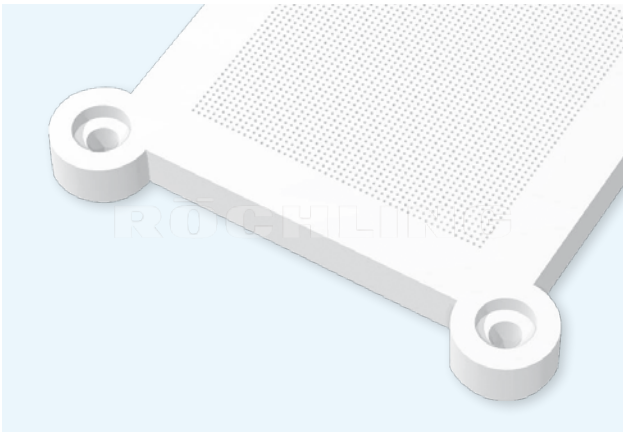
The material properties determined by Röchling Industrial in its own material laboratories according to ISO standards for tensile modulus of elasticity, ball indentation hardness and water absorption show that EtroX® V offers proven advantages over the typical materials from other suppliers tested in comparison.

Very high tensile modulus of elasticity



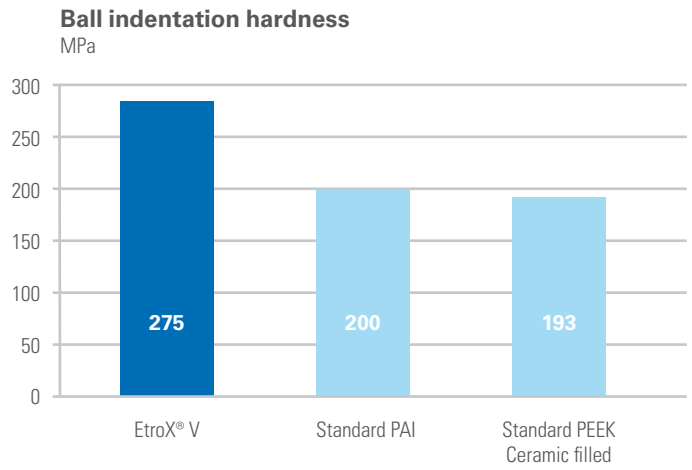
At 5300 MPa, the tensile modulus of elasticity of EtroX® V is considerably higher than that of the tested reference materials and thus ensures higher strength and reduced burr formation during machining. Measured according to DIN EN ISO 527.*





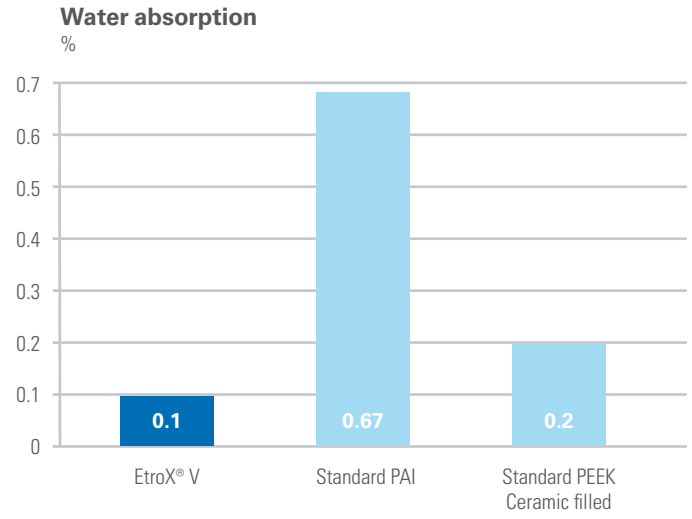
With EtroX® V you increase the reliability and cost-effectiveness of the time-consuming and cost-intensive production of equipment for testing electronic components.

Very high ball indentation hardness



At 275 MPa, the ball indentation hardness measured according to DIN EN ISO 2039-1 is impressively higher than the values of comparable materials and allows precise machining of components*.

Very low water absorption



With 0.1%, EtroX® V has almost no water absorption and the lowest value compared to the tested reference materials*.

*Measured according to ISO standards in the company's own material laboratory.

EtroX® V

Developed for the high demands in the electronics industry

Properties of EtroX® V

- Very high tensile modulus of elasticity
- Very high ball indentation hardness
- Very low water absorption
- Very low residual stress
- Very high dimensional stability even at high continuous operating temperatures of up to 250 °C
- Excellent machinability

Your advantages with EtroX® V

- EtroX® V increases the reliability and cost-effectiveness of the time-consuming and cost-intensive production of equipment for electronic components.

Areas of application

- Test sockets
- Holders for the assembly of smartphones and other electronic devices

Product programme sheets

- **Dimension**
  620 x 1230 mm / 24 x 48"
  500 x 1230 mm / 20 x 48"
- **Thickness**
  5, 6, 8, 10, 12, 20 and 30 mm

Other dimensions and shapes,
like round rods, possible on request.

Extensive offer for the electronics industry

EtroX® V is part of our extensive product range of materials specifically for the electronics industry. Röchling offers a wide range of composites and thermoplastics for the electronics industry. In addition to insulating materials, we also provide numerous ESD modifications as well as Durostone® solder pallets made of fibre-reinforced plastics.

RÖCHLING

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