

FACT SHEET

ElroForm™ TP

ElroForm™ TP is designed to be used as a thermal insulator for all types of battery applications. These components can be used on all levels of the battery pack. The primary function is to provide thermal insulation and resistance against cell venting in case of thermal runaway.

With excellent thermal insulation performance, it can significantly reduce the temperature level. Tailored design with acoustically optimized behavior and specific properties according to customer requirements can also be provided through joint development with customers.



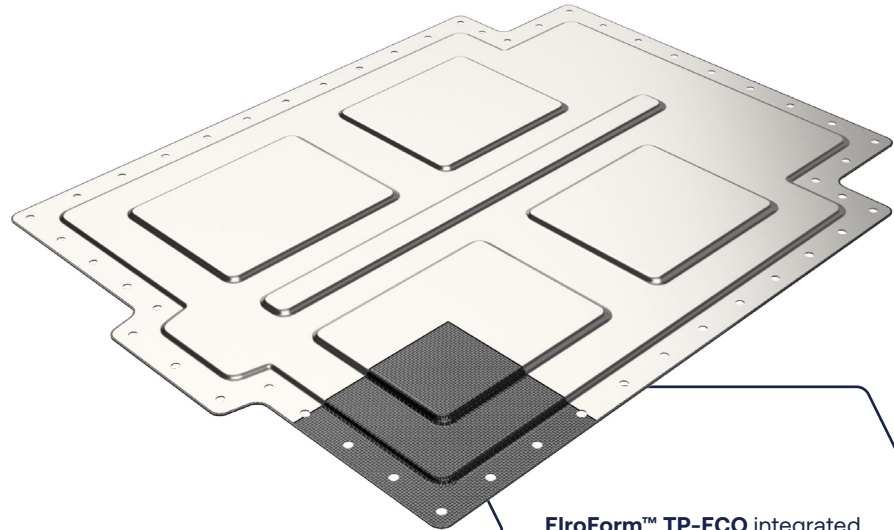
**Sustainable innovation,
unmatched performance –
ElroForm™ TP-ECO by
ElringKlinger**

Applications

- » Battery cover
- » Module cover
- » Cell-to-cell barrier
- » Busbar insulator
- » CCS insulator

Parameters

- » Tensile strength 50–350 MPa
- » Flexural strength 250–580 MPa
- » Excellent thermal resistance performance
- » Temperature resistance up to 1,300 °C
- » Flammability UL94 V0 approved
- » High dielectric strength up to 11 kV
- » Tailored design for LFP and NCM battery cells with various product thickness
- » UL2596 approved



ElroForm™ TP-ECO integrated into a sheet metal battery cover

Benefits

- » Lightweight design compared to Mica
- » Cost leadership over current solutions
- » Potential value for space saving (e.g. creating space in tight areas)
- » Flexible combination to meet different application demands
- » Functional integration with add-on components, fasteners and sheet metal covers possible
- » Reduced complexity and number of components due to increased design freedom and formability
- » Additional design features such as unequal thicknesses possible

**ELRINGKLINGER – YOUR PARTNER
FOR E-MOBILITY SOLUTIONS WITH
BATTERY TECHNOLOGY**

Battery Expertise – Module and System Design – Installation Space Optimization – Simulation and Testing – Certification – Prototyping – Process Engineering – Industrialization – Integrated Solutions and Components

YOUR CONTACT

ElringKlinger AG
E-mail: info@elringklinger.com

ElringKlinger AG | Max-Eyth-Straße 2 | 72639 Neuffen | Germany
www.elringklinger.com

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▶ SHAPE³⁰

The strategic direction of the ElringKlinger Group

