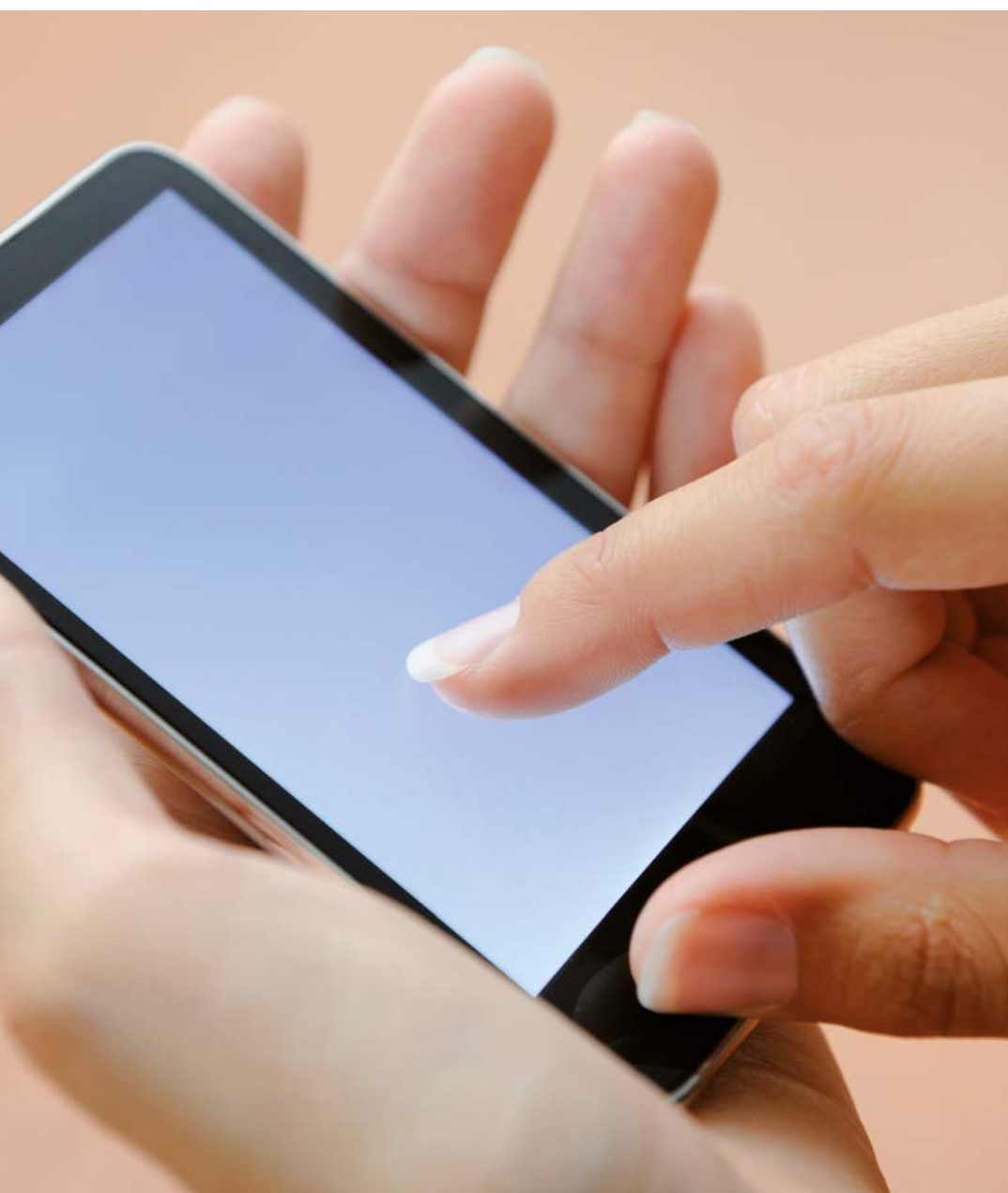


TPE with excellent resistance and adhesion

For Tec E®



Applications involving TPE

In our current society – where our everyday lives are characterized by stress – we often check our emails while devouring a sandwich. Or make a telephone call while preparing the evening meal. Smartphones, laptops or even our children's games consoles often get grease, oil and lotion on them.



Manufacturers and processors of these end products therefore value high-quality materials that fulfill the mechanical requirements of being easy to process and exhibiting a high level of resistance. Only then can they guarantee the long service life of the product and ensure that the customer is satisfied.

KRAIBURG TPE set out to meet this challenge and developed an innovative product group that is a match for skin lipids and various cleaning agents: For Tec E®.

For Tec E®: Resistance and adhesion

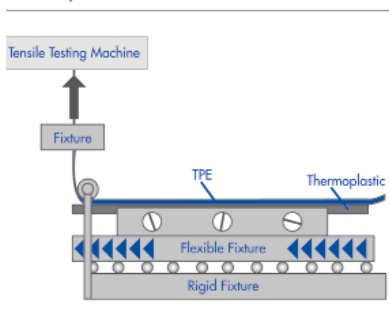
Thermoplastic elastomers from the For Tec E® range are characterized by excellent chemical resistance. Whether skin lipids, olive oil or acetone: they are no match for For Tec E® compounds. Furthermore, processing in a multi-component injection molding process provides them exceptionally good adhesion to high-performance polyamides such as

- Transparent PA 12
- Partly aromatic polyamides
- Polyarylamides
- PA 6 and PA 6.6

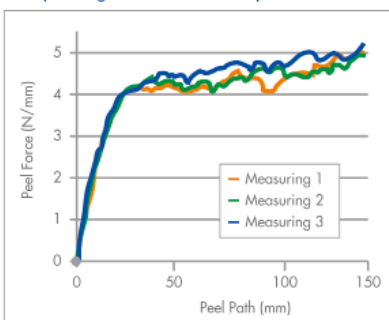
The adhesive properties were tested on 2-component sample plates according to the VDI guide line 2019.

Peel test according to VDI guide line 2019

Test Setup



Example diagram for results of a peel test



For Tec E® compounds also exhibit commendable mechanical values. A further highlight: KRAIBURG TPE thermoplastic elastomers can be precisely colored. Our in-house coloristics department is available to support you with color requirements.

Individual usage options

Because of their excellent resistance and exceptional adhesion properties, For-Tec E compounds are ideally suited for use in consumer electronics applications. Due to its exceptional adhesion to PA, For-Tec E is also frequently used in electric tools.

Electronic items and electric tools are often exposed to media such as sweat and moisture, followed by cleaning agents. For-Tec E guarantees a long end product life thanks to its excellent resistance.



Reasons to choose KRAIBURG TPE

As a world-leading producer of TPE compounds, we have been working with manufacturers from a wide range of industries for decades. The large number of well-known products containing KRAIBURG TPE material, plus numerous releases at prestigious OEMs, are testament to our intensive work and the quality of our product ranges.

The key to our success, and the major benefit to our customers, is our concentration on our core competences:

- Close ties to the customer
- Specialization and expertise
- Custom-engineering and innovation
- Global customer management

Quality and sustainability

Quality and sustainability are a few of our highest priorities. In addition to numerous quality assurance and improvement measures, KRAIBURG TPE is certified to ISO 50001 at our headquarters in Germany and holding ISO 9001 and ISO 14001 certifications at all global sites.

As a company we are committed to sustainability and social responsibility. To achieve these, we set measurable goals – such as the reduction of environmental impact, responsible use of



resources, an increase in energy-efficient production, close co-operation with environmentally conscious suppliers and the high employee satisfaction.

For Tec E® at a glance

- 60 - 80 Shore A
- Multi-component injection molding
- Adhesion to partly aromatic polyamides, polyarylamides and polyamides such as PA 12, PA 6 and PA 6.6
- Exceptional resistance to skin lipids, sun cream, olive oil and acetone
- Various coloring options possible in-house
- Excellent mechanical properties
- Low-temperature elasticity to -40 °C
- High thermal stability up to 80 °C
- Excellent UV, ozone, and weather resistance
- No use of latex and PVC
- Free of heavy metals
- Recyclable

Contact

KRAIBURG TPE GmbH & Co. KG

E-Mail info@kraiburg-tpe.com

Web www.kraiburg-tpe.com