



Velvety TPE, tough performer

COPEC®



CUSTOM-ENGINEERED TPE AND MORE

Applications involving TPE

Certain products, particularly in the field of entertainment electronics, have to withstand constant handling. Because they are touched continuously, they come into contact with skin lipids and moisture. We then use various cleaning agents to clean our high-quality games consoles, MP3 players and even sun-glasses. But can these media damage the product?

The end user should not be concerned, because the manufacturers should only choose first-class materials for their products. The product must not be affected by skin lipids, lotions or the various cleaning agents.

KRAIBURG TPE has developed an innovative material in the field of TPE in response to precisely these requirements: COPEC®. With the COPEC® thermoplastic elastomers, KRAIBURG TPE has successfully created compounds with the feel of "silk and satin", which gives your product added value. In addition, they consist of all requirements that provide end products with longer life.



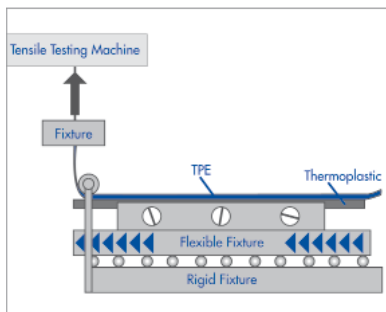
COPEC® and its benefits

In addition to the main properties of extremely pleasant haptics and excellent resistance, COPEC® also offers many more benefits. Processors, too, will be impressed by COPEC® compounds, because COPEC® can be simply processed in a multi-component injection molding process and thus has good adhesion to thermoplastic materials such as ABS and PC.

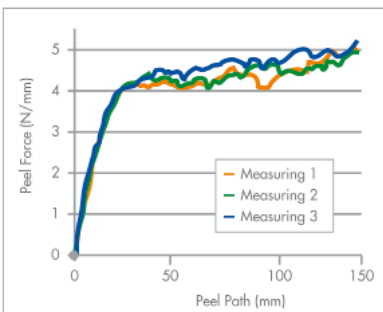
The adhesive properties were tested on 2-component sample plates according to the VDI guide line 2019.

Peel test according to VDI guide line 2019

Test Setup



Example diagram for results of a peel test



During production you, as the processor, benefit from the excellent flow properties of the melted pellet. This allows you to achieve uniform, dirt-resistant surfaces – that are in line with the pleasant feel of the material.

COPEC® 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.

A wide range of possible applications

Due to their velvety surface, COPEC® compounds from KRAIBURG TPE are ideal for applications in entertainment electronics. Because whether it is a games console, computer mouse or even just sunglasses – the haptics always play a major role for the consumer.

These applications come into contact with skin lipids or various creams whenever they are utilized. Thanks to the material's excellent resistance, with COPEC® you and your customers benefit from the long life of your product.



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 range

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

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

Quality and sustainability

Quality and sustainability is one of our highest priorities. In addition to numerous quality assurance and improvement measures, KRAIBURG TPE is also certified according to:

- ISO 9001:2008 (quality management system)
- ISO 14001:2004 (environmental management system)
- ISO 50001:2011 (energy management system)

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 cooperation with environmentally conscious suppliers and the high employee satisfaction.

COPEC® at a glance

- 60 - 80 Shore A
- Processing in multi-component injection molding
- Excellent adhesion to engineering thermoplastics like ABS and PC
- Exceptional resistance to skin lipids, sun cream, olive oil and cleaning agents
- Various coloring options possible in-house
- Excellent mechanical properties
- Low-temperature elasticity to -40 °C
- High thermostability to 100 °C
- Excellent UV, ozone, and weather resistance
- Recyclability

Contact

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