# Product information

| Brand Name | Product Code | Series |
|---|---|---|
| THERMOLAST® K | TC6PCN | AD/PA/CS |

The information provided in this documentation corresponds to our knowledge on the subject at the date of its publication and may be subject to revision from time to time as new knowledge and data becomes known to us. All stated values are typical values observed by us based on limited sample test results and are not a product specification. The responsibility to conduct testing to determine (i) suitability of use for a particular process or end-use applications, (ii) associated interactions with other product components, and (iii) any resulting safety risks remains with the customer and end user.

Please note that, as compound manufacturer, we are generally not aware of the subsequent area of application and the associated interactions with other product components, as well as any resulting safety risks, unless you discuss this with us in advance. For this reason, the use of this compound in safety-relevant applications is not permitted without our prior written consent.

Sealing applications with adhesion to PA

## Processing Method
Injection Molding

## Manufacturing Site
Germany, Malaysia, United States

## Color / RAL DESIGN
natural

## Availability
Globally

## Typical applications
- Seals
- Fastenings
- Grommets
- Cable clips
- Membranes

## Material advantages
- Adhesion to PA6 and PA6.6, up to 50% glass fiber
- Optimized compression set
- Optimized flow properties

## Regulations / Approvals
- VW 50123
- BMW GS 93042
- Mercedes-Benz DBL 1262
- UL 94 HB

KRAIBURG TPE
CUSTOM-ENGINEERED TPE AND MORE

# Datasheet

| Brand Name | Product Code | Series |
|---|---|---|
| THERMOLAST® K | TC6PCN | AD/PA/CS |

| Product properties | Value | Unit | Standard |
|---|---|---|---|
| **Hardness** | 57 | Shore A | DIN ISO 48-4 |
| **Density** | 1.100 | g/cm3 | DIN EN ISO 1183-1 |
| **Tensile Strength**[1] | 5.0 | MPa | DIN 53504/ISO 37 |
| **Elongation at Break**[1] | 350 | % | DIN 53504/ISO 37 |
| **Tear Resistance** | 15.5 | N/mm | DIN ISO 34-1 Method B (b) (Graves) |
| **CS 72 h/23 °C** | 21 | % | DIN ISO 815-1 Method A |
| **CS 24 h/70 °C** | 38 | % | DIN ISO 815-1 Method A |
| **CS 24 h/100 °C** | 50 | % | DIN ISO 815-1 Method A |
| **Adhesion to PA 6**[2] | 4.5 (D) | N/mm | DIN ISO 813-2 |
| **Adhesion to PA 6.6**[2] | 4.5 (D) | N/mm | DIN ISO 813-2 |
| **Short term temperature stability under stress -40°C up to** | 100 | °C | KRAIBURG TPE test method |
| **Short term temperature stability without stress -40°C up to** | 150 | °C | KRAIBURG TPE test method |
| **Long term temperature stability without stress from -40°C up to** | 125 | °C | KRAIBURG TPE test method |

[1]Deviating from ISO 37 standard test piece S2 is tested with a traverse speed of 200 mm/min.
[2]The adhesion quality depends on mold design, product geometry and process parameters.
All values published in this data sheet are rounded average values.
* Regulations a compound complies with and approvals granted are displayed here. Please note: All regulations and approvals for all compounds of a series are collectively shown in the overview of the respective product series, i.e. not all regulations and approvals shown in the overview apply to each individual compound.

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The shelf life of the TPE granules is 24 months from delivery if storage instructions are observed and the product is stored in the unopened original KRAIBURG TPE packaging. Store in dry conditions at room temperature (below 40 °C) away from heat sources and direct sunlight! Contact with nitrogen oxides must be avoided during storage!

For further information and individual custom solutions please contact our customer service.

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