Product information

Brand Name	Product Code	Series
THERMOLAST® K	TC4FRN	FR1

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.

Applications with flame retardant requirements; halogen-free; UL 94 V-0 (3.0 mm); adhesion to PP

Processing Method
Injection Molding, Extrusion

Manufacturing Site
Germany

Color / RAL DESIGN
natural

Availability
Globally

Typical applications
- Gaskets for electric and electronic applications e.g. cable boxes
- Gaskets for fire safety doors
- Cable management systems e.g. cable holders, cable glands and grommets

Material advantages
- Halogen-free (according to IEC 61249-2-21)
- Self-extinguishing, no release of burning droplets
- Adhesion to PP
- In-process recycling possible
- Precoloration in all colors
- Temperature stability up to 85 °C
- High glow-wire flammability index (GWFI)
- Stability in conditions up to 60 °C and 75% humidity

Regulations / Approvals
- UL 94 V-0 (3 mm)
- IEC 60695-2-12:2021-10 (GWFI) 960 °C / 3 mm

KRAIBURG TPE
CUSTOM-ENGINEERED TPE AND MORE

Datasheet

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Product properties	Value	Unit	Standard
Hardness	37	Shore A	DIN ISO 48-4
Density	1.140	g/cm3	DIN EN ISO 1183-1
Tensile Strength[1]	2.0	MPa	DIN 53504/ISO 37
Elongation at Break[1]	550	%	DIN 53504/ISO 37
Tear Resistance	13.0	N/mm	DIN ISO 34-1 Method B (b) (Graves)
CS 72 h/23 °C	9	%	DIN ISO 815-1 Method A
CS 24 h/70 °C	35	%	DIN ISO 815-1 Method A

[1]Deviating from ISO 37 standard test piece S2 is tested with a traverse speed of 200 mm/min.
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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