Product information

Brand Name	Product Code	Series
THERMOLAST® K	TC4CEZ	VS/AD/HM

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 velvety surfaces and high requirements for wear resistance; adhesion to polar thermoplastics

Processing Method
Injection Molding

Manufacturing Site
Germany, Malaysia, United States

Color / RAL DESIGN
black

Availability
Globally

Typical applications
- Automotive Interior
- Remote controls
- Cell phone covers
- Ear phones
- Handles (tools and power tools, etc.)
- Soft touch surface (thumb wheels, push buttons, switches)
- Wearables
- Function and design elements
- Car mats

Material advantages
- Adhesion to PA6 and PA12
- Adhesion to PC, ABS, PC/ABS, ASA, SAN
- Soft, velvety feel
- Abrasion resistance
- Scratch resistance
- Optimized mechanical properties
- Resistance to skin oils, sunscreen or olive oil
- Halogen content (chlorine + bromine) < 900 ppm

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KRAIBURG TPE
CUSTOM-ENGINEERED TPE AND MORE

Datasheet

Brand Name	Product Code	Series
THERMOLAST® K	TC4CEZ	VS/AD/HM

Product properties	Value	Unit	Standard
Hardness	40	Shore A	DIN ISO 48-4
Density	1.110	g/cm3	DIN EN ISO 1183-1
Tensile Strength[1]	7.5	MPa	DIN 53504/ISO 37
Elongation at Break[1]	750	%	DIN 53504/ISO 37
Tear Resistance	18.0	N/mm	DIN ISO 34-1 Method B (b) (Graves)
Adhesion to PC[2]	4.1 (C)	N/mm	DIN ISO 813-2
Flammability	56	mm/min	49 CFR §571.302 (FMVSS 302)
Odor	2.5		VDA 270 B-3
Fogging	0.73	mg	DIN 75201-B
Thermal desorption – VOC	196	µg/g	VDA 278
Thermal desorption – Fog	557	µg/g	VDA 278
Color fastness[3]	4.5	GS	DIN EN ISO 105-B06 Method 3

[1]Deviating from ISO 37 standard test piece S2 is tested with a traverse speed of 200 mm/min. Specimens were tempered for 20 hrs at 100°C (212°F).
[2]The adhesion quality depends on mold design, product geometry and process parameters.
[3]Rating after 5 cycles; acc. to DIN EN 20105-A02

TC6CEN passed tests for skin irritation according to ISO 10993-10.

All values published in this data sheet are rounded average values.

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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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