Product information

Brand Name	Product Code	Series
THERMOLAST® K	TP5VCZ	AD1/CS

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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 optimized CS and adhesion to polar thermoplastics, e.g. ABS, PC, PC/ABS and PBT

Processing Method
Injection Molding, Extrusion

Manufacturing Site
Germany, Malaysia, United States

Color / RAL DESIGN
black

Availability
Globally

Typical applications
- Seals
- Function and design elements
- Cable clips
- Bumpers
- Grommets
- Soft touch surface (thumb wheels, push buttons, switches)

Material advantages
- Adhesion to PC, ABS, PC/ABS, ASA, SAN
- Adhesion to PBT
- Optimized compression set
- Optimized mechanical properties

Regulations / Approvals
- 49 CFR §571.302 (FMVSS 302)
- VW 50123
- BMW GS 93042
- Mercedes-Benz DBL 1262
- PSA B62 0300
- UL 94 HB

Datasheet

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Product properties	Value	Unit	Standard
Hardness	50	Shore A	DIN ISO 48-4
Density	1.100	g/cm3	DIN EN ISO 1183-1
Tensile Strength[1]	3.5	MPa	DIN 53504/ISO 37
Elongation at Break[1]	450	%	DIN 53504/ISO 37
Tear Resistance	12.0	N/mm	DIN ISO 34-1 Method B (b) (Graves)
CS 72 h/23 °C	20	%	DIN ISO 815-1 Method A
CS 24 h/70 °C	43	%	DIN ISO 815-1 Method A
CS 24 h/100 °C	72	%	DIN ISO 815-1 Method A
Adhesion to ABS[2]	3.0 (C/D)	N/mm	DIN ISO 813-2
Adhesion to PC[2]	3.0 (B)	N/mm	DIN ISO 813-2
Adhesion to PC/ABS[2]	3.5 (C/D)	N/mm	DIN ISO 813-2
Short term temperature stability under stress -40°C up to	80	°C	KRAIBURG TPE test method
Short term temperature stability without stress -40°C up to	135	°C	KRAIBURG TPE test method
Long term temperature stability without stress from -40°C up to	110	°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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