Product information

Brand Name	Product Code	Series
THERMOLAST® K	TL4OCW-BLCK	LW/CS/UV

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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.

Lightweight sealing applications requiring high UV resistance

Processing Method
Injection Molding, Extrusion

Manufacturing Site
Germany

Color / RAL DESIGN
black

Availability
Globally

Typical applications
- Automotive Exterior
- Seals
- Glass Run Channel
- Seals for windows and doors
- Grommets
- Heavy-walled parts
- Bumpers

Material advantages
- Low density
- Adhesion to PP
- Optimized compression set
- UV and weathering resistance
- Resilience
- Non-sticky surface
- In-process recycling possible
- Low shrinkage properties
- Low tendency to warpage

Regulations / Approvals
- 49 CFR §571.302 (FMVSS 302)
- PV 3930 Florida (2 years)
- PV 3929 Kalahari (2 years)
- VW 50123
- Mercedes-Benz DBL 1262

Datasheet

Brand Name	Product Code	Series
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Product properties	Value	Unit	Standard
Hardness	45	Shore A	DIN ISO 48-4
Density	0.800	g/cm3	DIN EN ISO 1183-1
Tensile Strength[1]	3.5	MPa	DIN 53504/ISO 37
Elongation at Break[1]	360	%	DIN 53504/ISO 37
Tear Resistance	10.0	N/mm	DIN ISO 34-1 Method B (b) (Graves)
CS 72 h/23 °C	12	%	DIN ISO 815-1 Method A
CS 24 h/70 °C	16	%	DIN ISO 815-1 Method A
CS 24 h/100 °C	31	%	DIN ISO 815-1 Method A
Adhesion to PP[2]	2.5 (D)	N/mm	DIN ISO 813-2
Adhesion to PA 6[2]	3.4 (D)	N/mm	DIN ISO 813-2
Adhesion to PA 6.6[2]	3.3 (D)	N/mm	DIN ISO 813-2
Short term temperature stability under stress -40°C up to	110	°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	120	°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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