KRAIBURG TPE
CUSTOM-ENGINEERED TPE AND MORE

Product information

Brand Name
THERMOLAST® R

Product Code
RI7OIG-BLCK

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.

Hardness-dependent post-industrial recycled content up to 38%; applications for automotive interior; adhesion to PP

Processing Method
Injection Molding

Manufacturing Site
Germany

Color / RAL DESIGN
black

Availability
Europe, the Middle East and Afrika

Biobased raw material content
0%

Recycled raw materials content**
25%

Typical applications
- Thumb wheels
- Car mats
- Soft touch surface (thumb wheels, push buttons, switches)
- Automotive Interior

Material advantages
- Adhesion to PP
- Low density
- In-process recycling possible
- Temperature stability up to 90 °C
- Controlled level of emission and odor, suitable for automotive interior
- Soft, velvety feel
- Soft touch surface
- Sustainable material
- Recycling-specific raw material influences are possible

Regulations / Approvals
- DIN 75201-B - Fogging
- VDA 270 B3 - Odor
- 49 CFR §571.302 (FMVSS 302)
- DIN EN ISO 105-B06 Methode 3
- VW 50123
- BMW GS 93042
- Mercedes-Benz DBL 1262

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!

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Datasheet

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Product properties	Value	Unit	Standard
Hardness	75	Shore A	DIN ISO 48-4
Density	0.940	g/cm3	DIN EN ISO 1183-1
Tensile Strength[1]	9.0	MPa	DIN 53504/ISO 37
Elongation at Break[1]	750	%	DIN 53504/ISO 37
Flow Spiral [760 bar, 200 °C]	78	cm	DSOP Lab 2032
Recycled raw materials content	25	%	
Flammability	59.2	mm/min	49 CFR §571.302 (FMVSS 302)
Odor	3.5		VDA 270 B-3
Fogging	0.41	mg	DIN 75201-B
Thermal desorption – VOC	283	µg/g	VDA 278
Thermal desorption – Fog	1280	µg/g	VDA 278
Color fastness[2]	4.5	GS	DIN EN ISO 105-B06 Method 3
	ONLINE	g/cm3	
	ONLINE	Shore A	

[1]Deviating from ISO 37 standard test piece S2 is tested with a traverse speed of 200 mm/min.
[2]Rating after 5 cycles; acc. to DIN EN 20105-A02

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.

** Recycling-specific influences such as slight color deviations, gloss differences, viscosity variations or a higher hardness spreading are possible with TPEs containing a recycled component.

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

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