Product information

Brand Name	Product Code	Series
THERMOLAST® R	RR5MLZ-BLCK	RC/FG/AD1

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.

Recycling Content TPE with PC, ABS, PC/ABS adhesion for automotive interior; PIR and PCR content

Processing Method
Injection Molding

Manufacturing Site
Germany

Color / RAL DESIGN
black

Availability
Globally

Biobased raw material content
0%

Recycled raw materials content**
48%

Typical applications
- Thumb wheels
- Bumpers
- Gaskets
- Door sills
- Function and design elements
- Grommets
- Soft touch surface (thumb wheels, push buttons, switches)

Material advantages
- Recycled raw material content
- Reduced PCF compared to virgin compound
- In-process recycling possible
- Recycling-specific raw material influences are possible
- Adhesion to PC, ABS, PC/ABS
- Soft touch surface
- Controlled level of emission and odor, suitable for automotive interior
- Colorable
- Soft, non-sticky haptic

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KRAIBURG TPE
CUSTOM-ENGINEERED TPE AND MORE

Datasheet

Brand Name	Product Code	Series
THERMOLAST® R	RR5MLZ-BLCK	RC/FG/AD1

Product properties	Value	Unit	Standard
Hardness	48	Shore A	DIN ISO 48-4
Density	1.080	g/cm3	DIN EN ISO 1183-1
Tensile Strength[1]	3.0	MPa	DIN 53504/ISO 37
Elongation at Break[1]	530	%	DIN 53504/ISO 37
Tear Resistance	13.9	N/mm	DIN ISO 34-1 Method B (b) (Graves)
Adhesion to PC[2]	1.8 (A)	N/mm	DIN ISO 813-2
Adhesion to ABS[2]	2.4 (A)	N/mm	DIN ISO 813-2
Flow Spiral [760 bar, 200 °C]	49	cm	DSOP Lab 2032
Long term temperature stability without stress from -40°C up to	100	°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.
** 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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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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