

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.

The MC/AD1 series is your material solution for applications requiring basic medical approvals such as ISO 10993-5. The series is characterized by its adhesion properties to polar thermoplastics such as ABS, PC and PET/PETG. The compounds are available in natural colors and can be colored in many different ways. The compounds are produced exclusively on a special medical unit.

Processing Method

Injection Molding

Color / RAL DESIGN

- Natural

Manufacturing Site

Deutschland

Availability

Global

Typical applications

- Seals
- Flexible Connections
- Membranes
- Soft touch application (e.g. handles or push buttons)
- Valves

Material advantages

- Adhesion to PC, ABS, PC/ABS, ASA, SAN
- Adhesion to PET and PETG
- Adhesion to PS
- Sterilizable (autoclave 134 °C, β -/ γ -radiation 2x35 kGy, EtO)
- Soft touch surface
- Free from animal ingredients
- KRAIBURG TPE Medical Service Package
- US DMF listed
- ISCC PLUS ready (mass balance approach)

Regulations / Approvals*

- VDI 2017
- ISO 10993-4 (Hemolysis)
- ISO 10993-5 (Cytotoxicity)
- ISO 10993-10 (Intracutaneous injection)
- ISO 10993-11 (Acute systemic toxicity)
- USP <88> (Biological Reactivity, Class VI)

Compound name	Color / RAL DESIGN	Hardness DIN ISO 48-4 Shore A	Density DIN EN ISO 1183-1 g/cm ³	Tensile Strength ¹ DIN 53504/ISO 37 MPa	Elongation at Break ¹ DIN 53504/ISO 37 %	Tear Resistance ISO 34-1 Method B (b) (Graves) N/mm	CS 72 h/23 °C DIN ISO 815-1 Method A %	CS 24 h/70 °C DIN ISO 815-1 Method A %	Adhesion to ABS ² VDI 2019 two-component injection molding N/mm	Adhesion to PC ² VDI 2019 two-component injection molding N/mm	Adhesion to PETG VDI 2019 two-component injection molding N/mm
TM3ADT	Natural	32	0.930	3.0	550	8.0	14	35	0.5 (A)	0.7 (B)	0.7 (A)
TM4ADT	Natural	40	0.940	3.5	550	8.0	15	35	1.5 (D)	0.8 (A)	1.0 (A)
TM5ADT	Natural	50	0.950	5.5	600	9.5	17	38	3.0 (D)	3.0 (D)	2.5 (D)
TM6ADT	Natural	59	0.960	6.5	650	12.0	18	40	4.5 (D)	4.5 (D)	4.5 (D)
TM7ADT	Natural	73	1.000	10.0	700	22.0	22	40	4.8 (A)	8.0 (D)	7.5 (D)

¹Deviating from ISO 37 standard test piece S2 is tested with a traverse speed of 200 mm/min.

²The 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 expected shelf life of the TPE granules is a minimum of 24 months from the date of delivery, provided that the storage instructions are followed and the product is kept in the unopened original KRAIBURG TPE packaging. Dry conditions at room temperature (below 40 °C/ 104 °F), away from heat sources and direct sunlight, must be maintained for proper storage. Contact with nitrogen oxides during storage should be avoided.

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

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