

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 PC, ABS, PC/ABS. 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

### Typical applications

- Seals
- Flexible Connections
- Membranes
- Soft touch
- Valves
- Seals for housings

### Material advantages

- US DMF listed
- Adhesion to PC, ABS, PC/ABS, ASA, SAN
- Adhesion to PET and PETG
- Adhesion to PS
- Sterilizable (autoclave 134 °C,  $\beta$ -/γ-radiation 2x35 kGy, EtO)
- Abrasion resistance
- Free from animal ingredients
- KRAIBURG TPE Medical Service Package

### Regulations / Approvals

- Regulation (EU) No 10/2011
- US CFR 21 FDA (raw material conformity)
- VDI 2017
- ISO 10993-4 (Hemolysis)
- ISO 10993-5 (Cytotoxicity)
- ISO 10993-10 (Intracutaneous irritation)
- ISO 10993-11 (Acute systemic toxicity)
- USP <88> (Biological Reactivity, Class VI)

Storage life after delivery is 12 month at storage conditions like in a dry place at temperatures from 15 to 30°C away from heat and flame, avoid storage in open sunlight. Avoid contact with oxides of nitrogen during storage.

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

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Disclaimer: 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 as new knowledge and data becomes available. All values reported are typical values based on sample test results and are not a guarantee of performance. The responsibility to conduct testing to determine suitability of use for the particular process or end-use application remains with the customer.

Compound name	Color / RAL DESIGN	Hardness DIN ISO 7619-1 Shore A	Density DIN EN ISO 1183-1 g/cm <sup>3</sup>	Tensile Strength <sup>1</sup> DIN 53504/ISO 37 MPa	Elongation at Break <sup>1</sup> DIN 53504/ISO 37 %	Tear Resistance ISO 34-1 Methode 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 <sup>2</sup> VDI 2019 two-component injection molding N/mm	Adhesion to PC <sup>2</sup> VDI 2019 two-component injection molding N/mm	Adhesion to PETG VDI 2019 two-component injection molding N/mm
<b>TM3ADT</b>	Natural	34	0.930	3.0	550	8.0	13	34	0.5 (A)	0.5 (A)	0.5 (A)
<b>TM4ADT</b>	Natural	40	0.940	3.5	500	7.5	14	38	0.5 (A)	0.5 (A)	0.5 (A)
<b>TM5ADT</b>	Natural	50	0.950	5.5	600	9.5	17	38	3.0 (D)	1.5 (A)	1.0 (A)
<b>TM6ADT</b>	Natural	59	0.960	6.5	600	11.5	18	41	4.5 (D)	4.5 (D)	4.5 (D)
<b>TM7ADT</b>	Natural	73	1.000	8.0	650	18.0	22	45	5.0 (A)	8.0 (D)	7.5 (D)

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

<sup>2</sup>The adhesion quality depends on mold design, product geometry and process parameters.

All values published in this data sheet are rounded average values.

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