

## Kraiburg TPE THERMOLAST® M TM3ADT Thermoplastic Elastomer (MC/AD1 Series)

**Categories:** [Polymer](#); [Thermoplastic](#); [Elastomer, TPE](#); [Styrenic TPE](#)

**Material Notes:** The MC/AD1 series is a 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

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

Information provided by Kraiburg TPE

**Vendors:** No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in <sup>3</sup>	DIN EN ISO 1183-1
Storage Temperature	15.0 - 30.0 °C	59.0 - 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	32	32	DIN ISO 48-4
Tensile Strength	3.00 MPa	435 psi	200 mm/min; DIN 53504/ISO 37
Elongation at Break	550 %	550 %	200 mm/min; DIN 53504/ISO 37
Tear Strength	8.00 kN/m	45.6 pli	ISO 34-1 Method B (b)
Compression Set 	14 %	14 %	DIN ISO 815-1 Method A
	@Temperature 23.0 °C, @Temperature 73.4 °F, Time 259000 sec	Time 72.0 hour	
	35 %	35 %	DIN ISO 815-1 Method A
	@Temperature 70.0 °C, @Temperature 158 °F, Time 86400 sec	Time 24.0 hour	

Descriptive Properties		
Adhesion to ABS	0.5 N/mm (A)	VDI 2019 two-component injection
Adhesion to PC	0.7 N/mm (B)	VDI 2019 two-component injection
Adhesion to PETG	0.7 N/mm (A)	VDI 2019 two-component injection
Color	Natural	

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