



Typical Applications

- Soft touch application (e.g. handle or push button)
- Flexible connections
- Membranes



Our Know-how – Your Advantage

The MC/AD/PA series is the solution for applications requiring a full scale Medical Grade Plastic with basic medical approvals such as ISO 10993-5 and -10. The series is characterized by its excellent adhesion to various polyamides. The compounds are available in natural color and they are produced exclusively on a special medical unit.

- High mechanical properties and outstanding tear resistance
- Very low abrasion loss
- Reliable adhesion and cohesive break to PA6, PA12 and transparent PA
- Fullfill all aspects of the VDI 2017 guideline for MGPs
- Direct food contact grade
 - » US FDA CFR 21 (raw material conformity)
 - » Regualtion (EU) No 10/2011
- Medical regulations and approvals
 - » ISO 10993-4 (Hemolysis)
 - » ISO 10993-5 (Cytotoxicity)
 - » ISO 10993-10 (Intracutaneous injection)
 - » ISO 10993-11 (Acute systemic toxicity)
- Thermoplastic processing
- Sterilizable (β-/γ-radiation 2x35kGy, EtO)
- Very good colorability
- KRAIBURG TPE Medical Service Package

Technical Data

MC/AD/PA Series		TM6APO	TM7APO
Hardness	Shore A	58	70
Density	g/cm ³	0.99	1.01
Tensile strength	MPa	8.0	8.5
Elongation at break	%	650	460
Tear resistance	N/mm	14.0	20.0
Abrasion loss DIN ISO 4649 – 10 N	mm ³	50	48
Adhesion to PA6	N/mm	4.5 (B/D)	5.0 (B)
Adhesion to PA12	N/mm	4.0 (B/D)	6.5 (B/D)
Adhesion to PA12 after 2 sterilization cycles with EtO	N/mm	4.9 (B/D)	5.5 (B/D)
Adhesion to PA12 after 2 sterilization cycles with γ radiation (35 kGy)	N/mm	5.9 (B/D)	6.0 (B)

Oliver Kluge, Application specialist

“We are looking forward to introducing the world’s first TPEs for medical applications in composites with polyamides – including transparent PA12. The compounds are fully certified and suitable for a variety of attractive medical devices, including those used for in vitro diagnostics.”

TALK TO OUR EXPERTS!

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