THERMOLAST® M TM7APO (Series: MC/AD/PA)

KRAIBURG TPE - *Thermoplastic Elastomer*

General Information

Product Description

Medical and pharmaceutical applications; adhesion to Polyamides

Typical applications

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

Material advantages

- Adhesion to PA6 and PA12
- Smooth touch
- Sterilizable (ß-/y-radiation 2x35 kGy, EtO)
- KRAIBURG TPE Medical Service Package
- Free from animal ingredients
- Colorable, also in effect colors

Regulations / Approvals

- Regulation (EU) No 10/2011
- US FDA CFR 21 (raw material conformity)
- VDI 2017
- ISO 10993-4 (Hemolysis)
- ISO 10993-5 (Cytotoxicity)
- ISO 10993-10 (Intracutaneous injection)
- ISO10993-11 (Acute systemic toxicity)

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Ethylene Oxide Sterilizable • Good Adhesion	• Good Colorability • No Animal Derived Components	• Radiation Sterilizable
Uses	• Buttons • Connectors	• Handles • Medical/Healthcare Applications	• Soft Touch Applications
Agency Ratings	• EU 10/2011 • FDA	• ISO 10993-10 • ISO 10993-11	• ISO 10993-4 • ISO 10993-5
Appearance	• Natural Color		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.01	g/cm³	ISO 1183
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (Yield)	1230	psi	ISO 37
Tensile Elongation [2] (Break)	460	%	ISO 37
Tear Strength [3]	114	lbf/in	ISO 34-1
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	70		ISO 48-4
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Adhesion to PA12 - (B/D) [4]	37	lbf/in	VDI 2019
Adhesion to PA6 - (B) [4]	29	lbf/in	VDI 2019