

THERMOLAST® M TM4MEP (Series: MC)
KRAIBURG TPE - Thermoplastic Elastomer
General Information
Product Description

Medical applications and pharmaceutical packaging

Typical applications

- Pharmaceutical packaging
- Seals
- Valves
- Flexible Connections

Material advantages

- Adhesion to PP, PE
- Optimized compression set
- Free from animal ingredients
- Sterilizable (autoclave 134°C, β - γ -radiation 2x35 kGy, EtO)
- KRAIBURG TPE Medical Service Package

Regulations / Approvals

- Regulation (EU) No 10/2011
- US FDA CFR 21
- China GB4806-2016
- VDI 2017
- ISO 10993-5 (Cytotoxicity)
- ISO8871-1 (Part 1: Extractables in aqueous autoclavates)
- Compatible for HDPE Recycling certified by Cyclos HTP
- Compatible for PP Recycling certified by Cyclos HTP

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Autoclave Sterilizable	• Good Adhesion	• No Animal Derived Components
	• Ethylene Oxide Sterilizable	• Good Compression Set	• Radiation Sterilizable
Uses	• Connectors	• Seals	
	• Pharmaceutical Packaging	• Valves/Valve Parts	
Agency Ratings	• Chinese Standard GB 4806.7-2016	• FDA	
	• EU 10/2011	• ISO 10993-5	
Appearance	• Translucent		
Processing Method	• Extrusion	• Injection Molding	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.884	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (Yield)	1450	psi	ISO 37
Tensile Elongation ² (Break)	930	%	ISO 37
Tear Strength ³	77.7	lbf/in	ISO 34-1
Compression Set ⁴			ISO 815
73°F, 72 hr	19	%	
158°F, 24 hr	30	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	38		ISO 48-4



Notes

¹ Typical properties: these are not to be construed as specifications.

² Type S2, 7.9 in/min

³ Method Bb, Angle (Nicked)

⁴ Type 1, Method A

