THERMOLAST® M TM5MEP (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, ß-/y-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 • Asia Pacific	• Europe • Latin America	• North America
Features	• Autoclave Sterilizable • Ethylene Oxide Sterilizable	• Good Adhesion • Good Compression Set	• No Animal Derived Components • Radiation Sterilizable
Uses	• Connectors • Pharmaceutical Packaging	• Seals • Valves/Valve Parts	
Agency Ratings	• Chinese Standard GB 4806.7-2016 • EU 10/2011	• FDA • ISO 10993-5	
Appearance	• Translucent		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm³	ISO 1183
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (Yield)	1670	psi	ISO 37
Tensile Elongation [2] (Break)	850	%	ISO 37
Tear Strength [3]	88.5	lbf/in	ISO 34-1
Compression Set [4]			ISO 815
73°F, 72 hr	23	%	
158°F, 24 hr	33	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	50		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