

THERMOLAST® M TM3RST (Series: MC/RS)

KRAIBURG TPE - *Thermoplastic Elastomer*

General Information

Product Description

The MC/RS series is your material solution for applications requiring basic medical approvals such as ISO 10993-5. The series is characterized by its resealing properties and its adhesion to PP and PE. The compounds are translucent and can be colored in many different ways. The compounds are produced exclusively on a special medical unit.

Typical applications

- Infusion stoppers
- Membranes
- Closures

Material advantages

- US DMF listed
- Resealing
- Adhesion to PP, PE
- Optimized compression set
- Sterilizable (autoclave 134°C, β -/y-radiation 2x35 kGy, EtO)
- Weldable (Ultrasonic)
- Free from animal ingredients
- KRAIBURG TPE Medical Service Package
- ISCC PLUS ready (mass balance approach)

Regulations / Approvals

- VDI 2017
- ISO 10993-5 (Cytotoxicity)
- 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	• Ultrasonic Weldable
Uses	• Closures	• Medical/Healthcare Applications	• Membranes
Agency Ratings	• ISO 10993-5		
Appearance	• Translucent		
Processing Method	• Extrusion	• Injection Molding	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (Yield)	1090	psi	ISO 37
Tensile Elongation ² (Break)	800	%	ISO 37
Tear Strength ³	65.7	lbf/in	ISO 34-1
Compression Set ⁴			ISO 815
73°F, 72 hr	20	%	
158°F, 24 hr	28	%	
212°F, 24 hr	49	%	

Hardness	Nominal Value	Unit	Test Method
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Shore Hardness (Shore A)	33	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 Method A		

