

THERMOLAST® M TM5MED (Series: MC/tl)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

The MC/tl Series is your material solution for applications requiring basic medical approvals such as ISO 10993-5. The compounds are produced exclusively by a special medical unit and available in translucent colors.

Typical applications

Flexible Connections

Mouthpieces

Seals

Soft touch

Valves

Material advantages

Adhesion to PP

DMF listed

Excellent compression set

For injection molding and extrusion

Free of animal based ingredients

KRAIBURG TPE Medical service package (description below)

Sterilizable (autoclave 134°C, gamma radiation 2x35 kGy, EtO)

Tested according to ISO 10993-5

General Information			
Features	Autoclave Sterilizable		
	Ethylene Oxide Sterilizable		
	Good Adhesion		
	No Animal Derived Components		
	Radiation Sterilizable		
Uses	Connectors		
	Medical/Healthcare Applications		
	Seals		
	Soft Touch Applications		
	Valves/Valve Parts		
Agency Ratings	DMF 22979		
	ISO 10993 Part 5		
Appearance	Translucent		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.880	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method

Shore Hardness (Shore A)	46		ISO 7619
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Yield)	10.0	MPa	ISO 37
Tensile Elongation ² (Break)	850	%	ISO 37
Tear Strength ³	15	kN/m	ISO 34-1
Compression Set ⁴			ISO 815
23°C, 72 hr	19	%	
70°C, 24 hr	32	%	
100°C, 24 hr	46	%	
Extrusion	Nominal Value	Unit	
Drying Temperature	60.0 to 80.0	°C	
Drying Time	2.0 to 4.0	hr	
Cylinder Zone 1 Temp.	160	°C	
Cylinder Zone 2 Temp.	180	°C	
Cylinder Zone 3 Temp.	200	°C	
Die Temperature	200 to 230	°C	
NOTE			
1.	Type S2, 200 mm/min		
2.	Type S2, 200 mm/min		
3.	Method Bb, Angle (Nicked)		
4.	Method A		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

