

# THERMOLAST® M TM5LFT (Series: MC/LF)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

The MC/LF Series is your material solution for applications requiring basic medical approvals such as ISO 10993-5. The series convinces due to its extremely low friction coefficient. The compounds are produced exclusively by a special medical unit and available in translucent colors.

Typical applications

Mechanical components

Seals

Syringe gaskets

Material advantages

Adhesion to PP

DMF listed

Excellent mechanical properties

For injection molding

KRAIBURG TPE Medical service package (description below)

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

Tested according to ISO 10993-5

General Information			
Features	Autoclave Sterilizable		
	Ethylene Oxide Sterilizable		
	Good Adhesion		
	Low Friction		
	Radiation Sterilizable		
Uses	Gaskets		
	Medical/Healthcare Applications		
	Seals		
Agency Ratings	DMF 25607		
	ISO 10993 Part 5		
Appearance	Translucent		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm <sup>3</sup>	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	46		ISO 7619
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (Yield)	9.00	MPa	ISO 37
Tensile Elongation <sup>2</sup> (Break)	800	%	ISO 37

Tear Strength <sup>3</sup>	14	kN/m	ISO 34-1
Compression Set <sup>4</sup>			ISO 815
23°C, 72 hr	20	%	
70°C, 24 hr	31	%	
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

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