

# THERMOLAST® M TM6LFT (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	Low friction coefficient		
	Radiation disinfection		
	Pressure cooker disinfection		
	Ethylene oxide disinfection		
	Good adhesion		
Uses	Washer		
	Seals		
	Medical/nursing supplies		
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
Durometer Hardness (Shore A)	57		ISO 7619
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (Yield)	11.0	MPa	ISO 37
Tensile Elongation <sup>2</sup> (Break)	800	%	ISO 37

Tear Strength <sup>3</sup>	17	kN/m	ISO 34-1
Compression Set <sup>4</sup>			ISO 815
23°C, 72 hr	25	%	ISO 815
70°C, 24 hr	41	%	ISO 815
100°C, 24 hr	57	%	ISO 815

Extrusion	Nominal Value	Unit
Drying Temperature	60.0 - 80.0	°C
Drying Time	2.0 - 4.0	hr
Cylinder Zone 1 Temp.	160	°C
Cylinder Zone 2 Temp.	180	°C
Cylinder Zone 3 Temp.	200	°C
Die Temperature	200 - 230	°C

NOTE		
1.	Type S2, 200 mm/min	
2.	Type S2, 200 mm/min	
3.	Method B, right-angle specimen (cut)	
4.	Method A	

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#### Recommended distributors for this material

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