

THERMOLAST® M TM7LFT (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 ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	68		ISO 7619
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Yield)	12.0	MPa	ISO 37
Tensile Elongation ² (Break)	800	%	ISO 37

Tear Strength ³	21	kN/m	ISO 34-1
Compression Set ⁴			ISO 815
23°C, 72 hr	31	%	
70°C, 24 hr	41	%	
100°C, 24 hr	60	%	

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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