

THERMOLAST® M TM6LFT (Series: MC/LF)

Thermoplastic Elastomer

KRAIBURG TPE

PROSPECTOR®

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Technical Data

Product Description

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

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Search for UL Yellow Card	• KRAIBURG TPE
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
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
Elastomers	Nominal Value Unit	Test Method
Tensile Stress ³ (Break)	11.0 MPa	ISO 37
Tensile Elongation ³ (Break)	800 %	ISO 37
Tear Strength ⁴	17.0 kN/m	ISO 34-1
Compression Set ⁵		ISO 815
23°C, 72 hr	25 %	
70°C, 24 hr	41 %	
100°C, 24 hr	57 %	
Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore A)	57	ISO 7619



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Injection	Nominal Value Unit
Drying Temperature	60 to 80 °C
Drying Time	2.0 to 4.0 hr
Rear Temperature	180 °C
Middle Temperature	200 °C
Front Temperature	220 °C
Mold Temperature	25 to 40 °C
Injection Pressure	20.0 to 100 MPa
Back Pressure	2.00 to 10.0 MPa
Extrusion	Nominal Value Unit
Drying Temperature	60 to 80 °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
Screw L/D Ratio	25.0:1.0

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ Type S2, 200 mm/min

⁴ Method Bb, Angle (Nicked)

⁵ Method A



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Where to Buy

Supplier

KRAIBURG TPE

Duluth, GA USA

Telephone: 678-584-5020

Web: <http://www.kraiburgtpe.com/>

Distributor

Chase Plastic Services, Inc.

Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: <http://www.chaseplastics.com/contact/locations>

Telephone: 800-232-4273

Web: <http://www.chaseplastics.com/>

Availability: North America

Lenorplastics Zug

Telephone: +41-41-798-02-11

Web: <https://www.lenorplastics.ch>

Availability: Switzerland

Plastoplan

Telephone: +43-1-25040-0

Web: <https://www.plastoplan.com/>

Availability: Austria, Hungary, Poland

