

The MC/LF series is your material solution for applications requiring basic medical approvals such as ISO 10993-5. The series convinces by a low coefficient of friction. The compounds are translucent and can be colored in many different ways. The compounds are produced exclusively on a special medical unit.

Processing Method

Injection Molding, Extrusion

Color / RAL DESIGN

- Translucent

Typical applications

- Seals
- Mechanical components
- Syringe gaskets

Material advantages

- US DMF listed
- Adhesion to PP
- Low surface friction
- Abrasion resistance
- Scratch resistance
- Sterilizable (autoclave 134 °C, β -/γ-radiation 2x35 kGy, EtO)
- Optimized mechanical properties
- KRAIBURG TPE Medical Service Package

Regulations / Approvals

- Regulation (EU) No 10/2011
- US FDA CFR 21
- US FDA CFR 21 conformity)
- VDI 2017
- ISO 10993-4 (Hemolysis)
- ISO 10993-5 (Cytotoxicity)
- ISO 10993-10 (Intracutaneous irritation)
- ISO10993-11 (Acute systemic toxicity)
- USP <88> (Biological Reactivity, Class VI)

Storage life after delivery is 24 month at storage conditions like in a dry place at temperatures from 15 to 30°C away from heat and flame, avoid storage in open sunlight. Avoid contact with oxides of nitrogen during storage.

For further information and individual custom solutions please contact our customer service.

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Disclaimer: The information provided in this documentation corresponds to our knowledge on the subject at the date of its publication and may be subject to revision as new knowledge and data becomes available. All values reported are typical values based on sample test results and are not a guarantee of performance. The responsibility to conduct testing to determine suitability of use for the particular process or end-use application remains with the customer.

Compound name	Color / RAL DESIGN	Hardness DIN ISO 7619-1 Shore A	Density DIN EN ISO 1183-1 g/cm ³	Tensile Strength ¹ DIN 53504/ISO 37 MPa	Elongation at Break ¹ DIN 53504/ISO 37 %	Tear Resistance ISO 34-1 Methode B (b) (Graves) N/mm	CS 72 h/23 °C DIN ISO 815-1 Method A %	CS 24 h/70 °C DIN ISO 815-1 Method A %	CS 24 h/100 °C DIN ISO 815-1 Method A %
TM3LFT	Translucent	29	0.890	4.0	700	7.0	14	41	26
TM4LFT	Translucent	37	0.890	7.0	750	10.5	18	32	46
TM5LFT	Translucent	46	0.890	9.0	800	13.5	20	31	46
TM6LFT	Translucent	57	0.890	11.0	800	17.0	25	41	57
TM7LFT	Translucent	68	0.890	12.0	800	21.0	31	41	60
TM8LFT	Translucent	78	0.890	12.0	750	28.0	36	42	53
TM9LFT	Translucent	88	0.890	12.0	750	40.0	28	33	41

¹Deviating from ISO 37 standard test piece S2 is tested with a traverse speed of 200 mm/min.
All values published in this data sheet are rounded average values.

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