

## **MEDICAL**



## **CONTENTS**

••	TPE: Endless Application Possibilities			02
••	Exacting Medical Standards			03
••	TPE Portfolio Series: Medical Sector			
	THERMOLAST® M	Adhesion Materials	TPE	
	MC/AD1 MC/HE MC/LF MC/RS MC/tl	PC   ABS   PC/ABS PP PP PP PP	TPS TPS TPS TPS TPS	07 07 08 08 09
•• Technical Info at a Click				
••	• Brighten Up with Colors			11
••	• Bring Your Ideas to Life			12
••	• Our Standards of Excellence			13
••	• CARING YOU & ME			14





# **EXACTING MEDICAL**STANDARDS

Safety, quality and comfort are Prerequisites for the medical and phamaceutical industries.

Medical product designers and manufacturers have come to rely on KRAIBURG TPE to provide technically advanced medical grade TPEs to meet a variety of critical medical requirements. KRAIBURG TPE's exclusive TPE compounds are able to be in contact with pharmaceutical mediums or blood, which will be lead into the human body or to the blood circuit. All medical compounds in the portfolio are tested according to ISO 10993-5 "Cytotoxicity".



















#### THERMOLAST® M

Series MC/AD1

The MC/AD1 Series is your material solution for applications requiring basic medical approvals such as ISO 10993-5. The series is characterized by excellent adhesion properties to polar thermoplastics such as PC, ABS, PC/ABS. The compounds are produced exclusively by a special medical unit.

Compound Name	Hardness	Color	Adhesion
• TMxADT	34-73 Shore A	Natural	PC ABS PC/ABS

#### **Typical Applications**

- · Flexible Connections
- Membranes
- Seals
- · Soft touch
- Valves

#### **Material Advantages**

- · DMF listed
- · Excellent mechanical properties
- · For injection molding
- · Free of animal based ingredients
- KRAIBURG TPE Medical service package (Please refer to the technical data sheet)
- Sterilizable (autoclave 134°C, gamma radiation 2x35 kGy, EtO)
- Tested according to ISO 10993-5

#### THERMOLAST® M

Series MC/HE

The MC/HE Series is your material solution for applications requiring basic medical approvals such as ISO 10993-5. The series is characterized by combining excellent elasticity with high hardness. The compounds are produced exclusively by a special medical unit and available in transparent colors.

Compound Name	Hardness	Color	Adhesion
• TMxHET	39-52 Shore D	Transparent	PP

#### **Typical Applications**

- · Drip chamber
- Luer lock
- · Squeeze bottles

#### **Material Advantages**

- · Adhesion to PP
- · DMF listed
- · Free of animal based ingredients
- High elasticity
- · High stiffness
- KRAIBURG TPE Medical service package (Please refer to the technical data sheet)
- Sterilizable (autoclave 134°C, gamma radiation 2x35 kGy, Et0)
- Tested according to ISO 10993-5

THERMOLAST® M 07108

## Series MC/LF

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.

Compound Name	Hardness	Color	Adhesion
• TMxLFT	29-88 Shore A	Translucent	PP

#### **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 (Please refer to the technical data sheet)
- Sterilizable (autoclave 134°C, gamma radiation 2x35 kGy, EtO)
- Tested according to ISO 10993-5

#### THERMOLAST® M

## Series MC/RS

The MC/RS Series is your material solution for applications requiring basic medical approvals such as ISO 10993-5. The series is characterized by excellent adhesion properties to polar thermoplastics such as PC, ABS, PC/ABS. The compounds are produced exclusively by a special medical unit.

Compound Name	Hardness	Color	Adhesion
• TMxRST	33-43 Shore A	Translucent	PP

#### **Typical Applications**

- Closures
- Infusion stoppers
- · Membranes

#### **Material Advantages**

- · Adhesion to PP
- · DMF listed
- Excellent compression set
- · For injection molding and extrusion
- · Free of animal based ingredients
- KRAIBURG TPE Medical service package (Please refer to the technical data sheet)
- Outstanding resealing properties
- Sterilizable (autoclave 134 °C, gamma radiation 2x35 kGy, EtO)
- Tested according to ISO 10993-5

#### THERMOLAST® M

Series MC/tl

The MC/tl Series is your material solution for applications requiring basic medical approvals such as ISO 10993-5. The compounds are produced exclusively by a special medical unit and available in translucent color.

Compound Name	Hardness	Color	Adhesion
• TMxMED	27-89 Shore A	Translucent	PP

#### **Typical Applications**

- Flexible Connections
- Mouthpieces
- Seals
- Soft touch
- Valves

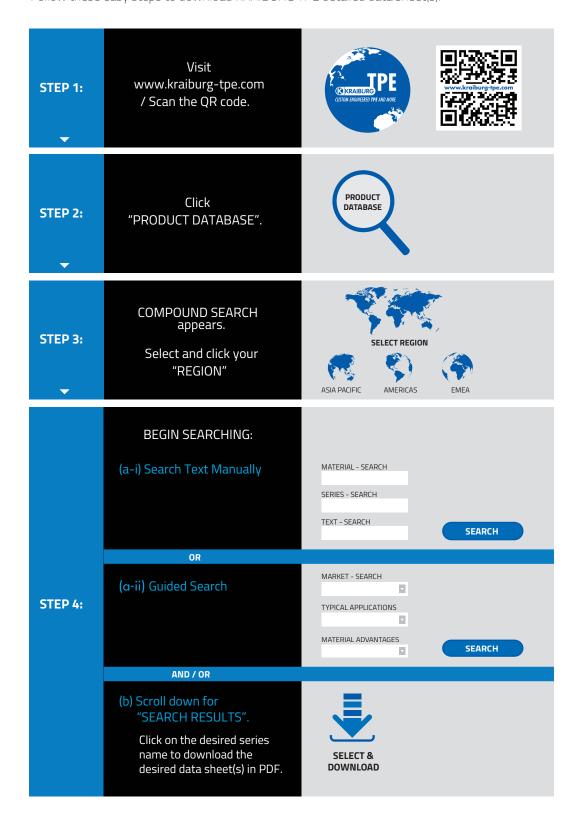
#### **Material Advantages**

- · Adhesion to PP
- DMF listed
- Excellent compression set
- For injection molding and extrusion
- Free of animal based ingredients
- KRAIBURG TPE Medical service package (Please refer to the technical data sheet)
- Sterilizable (autoclave 134°C, gamma radiation 2x35 kGy, Et0)
- Tested according to ISO 10993-5

### TECHNICAL INFO AT A CLICK

Get online support by downloading our detailed KRAIBURG TPE technical data sheet(s) with processing guides and safety data sheet(s) anywhere in the world.

Follow these easy steps to download KRAIBURG TPE detailed data sheet(s):



## **BRIGHTEN UP**WITH COLORS

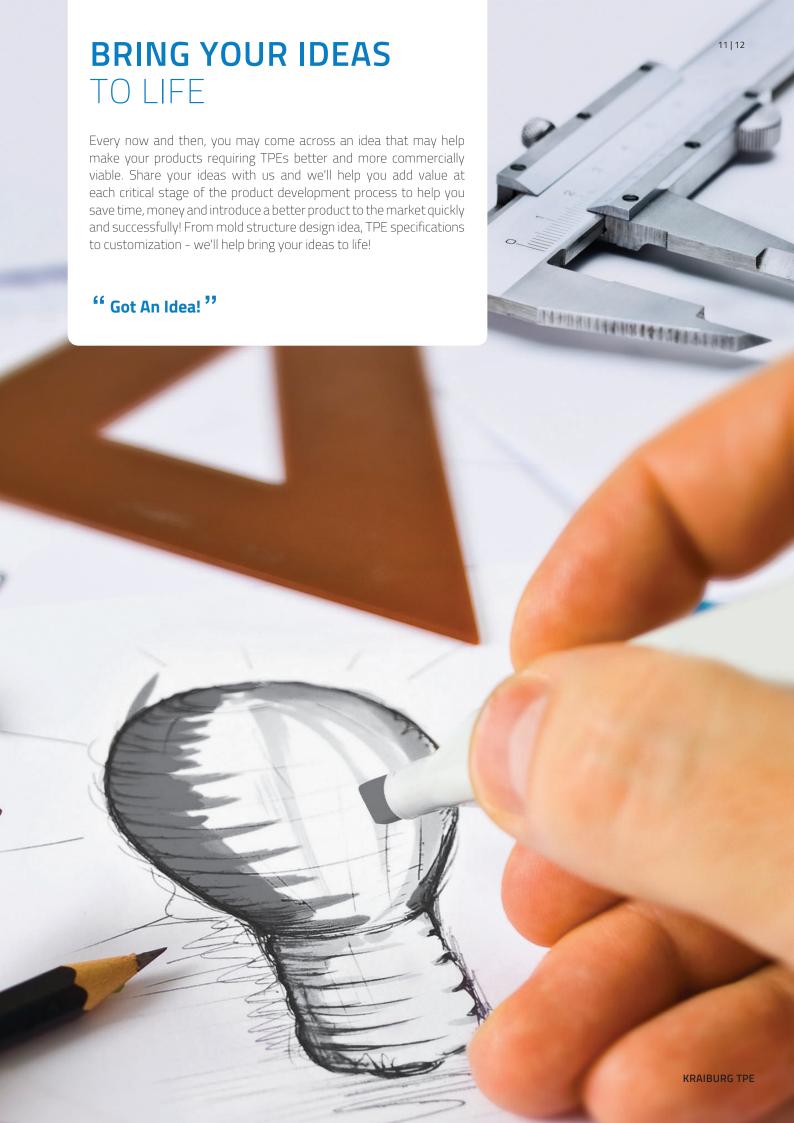
Set your products apart from the competition with KRAIBURG TPE customized color TPEs. Our TPE can be color compounded upon request, regardless of your application requirements, such as: special chemical, thermal resistance, different finishing and textures, or other exclusive properties. We will strive to fulfill your request in the most economic and optimal way possible, and assure a worldwide consistent color quality.

### "Comprehensive Solution!

Impress your customer and score with an appealing design and the perfect color. \*\*\*







## OUR STANDARDS OF EXCELLENCE

KRAIBURG TPE prides itself as a company that pursues quality, innovation and excellence at all levels. This quality management approach enables us to assure the quality requirements for both the applications and the customers – exceeding high standards of safety, quality and reliability. We will also continue to develop innovative products and continuously improve our performance, as all our employees are fully dedicated to the highest standards of:

#### **QUALITY MANAGEMENT SYSTEM**

complying with the requirements of standard ISO 9001

#### **ENVIRONMENTAL MANAGEMENT SYSTEM**

complying with the requirements of standard ISO 14001

#### **ENERGY MANAGEMENT SYSTEM**

complying with the requirements of standard **ISO 50001** 



### **CARING YOU & ME**

The importance of environmental conservation is a topic we are actively conscious about. KRAIBURG TPE takes important measures to ensure that our thermoplastic elastomers (TPEs) can be recycled nearly up to 100%. This allows us to melt down the thermoplastic elastomers again and again – saving on material use and ultimately, preserving the environment.

We have also initiated a landmark "CARING YOU & ME" initiative around the Asia Pacific region to make a difference in our lives. Our theme adopts a caring approach towards environment conservation and preservation, and towards our employees' health and safety concerns (EHS). Our goal is to work towards better environment preservation, health and safety while simultaneously maintaining harmony with nature in all our global operation activities.







## **MEDICAL**

Revolutionize unique innovations in medical technologies with our wide scope of approved medical compound series. Our sterilizable material is free of PVC, latex and silicone and stands for an excellent material performance and more!



Headquarters: Germany

#### **Production Sites:**

#### EMEA: Waldkraiburg, Germany

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