



**THERMOLAST® M**

**TPS for Medical and Pharmaceutical Applications**

High Quality by KRAIBURG TPE

# Medical and Pharmaceutical Applications

Medical Devices



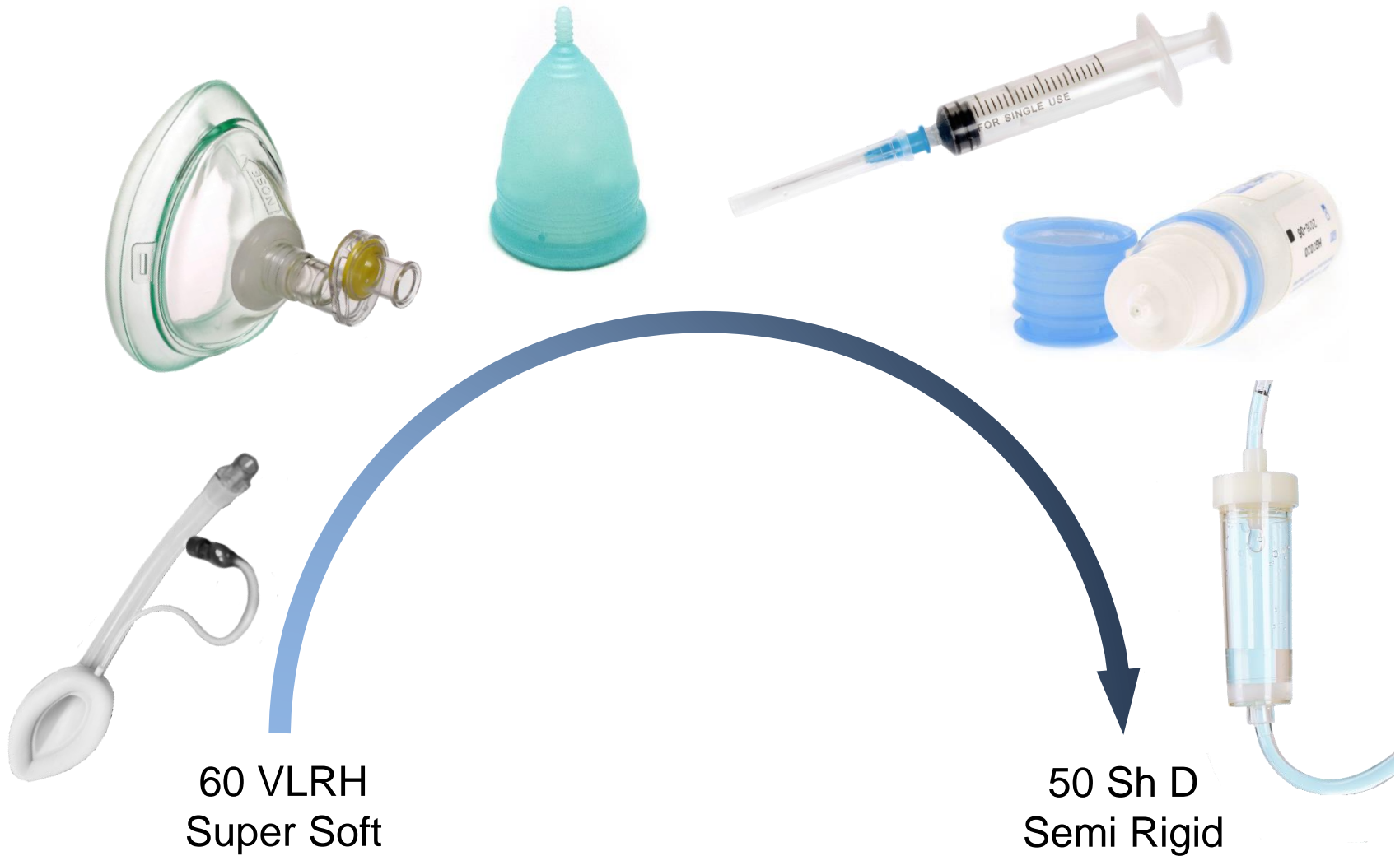
Pharma Packaging



Diagnostics



# THERMOLAST® M Hardness Range



# THERMOLAST® M

## Possibilities in Two Component Injection Molding

### TPE with adhesion to:

Polyolefins	PP	PE	COC / COP
Polyesters	PC	PET & PETG	PBT
Styrenics & Acrylics	ABS	SMMA	
Polyamides	PA6	PA6.6	PA12



### VDI 2017 – Medical Grade Plastic

- Change control
  - Full traceability of materials
  - Dedicated medical production line
  - Dedicated quality control system
  - Supply guaranty: 24 months
- 

### Medical Compliance

- Drug Master File
- ISO 10993-5 for all compounds
- Representative compounds:
  - ISO 10993-4, -5, -10, -11
  - USP 87/88: USP Plastics Class VI
  - Extractables study



# THERMOLAST® M

## Material Advantages



Low Surface Friction



Resealing Properties



Highly Elastic Materials



Adhesion Possibilities

# THERMOLAST® M

## Low Surface Friction

### MC/LF – Series

- Hardness range: 30-90 Shore A
- Translucent material

### Key Features

- Superior adhesion to PP
- Excellent mechanics
- Low compression set
- Sterilizable
- DMF listed

### Applications

- Sealings
- Syringe gaskets



# THERMOLAST® M

## Resealing Performance

### MC/RS – Series

- Hardness range: 30 – 40 Sh A
- Translucent material

### Key Features

- Outstanding resealing Performance
- Superior adhesion to PP
- Excellent compression set
- Sterilizable
- DMF listed

### Applications

- Infusion stoppers
- Closures
- Membranes





# THERMOLAST® M

## High Elasticity

### MC/HE – Series

- Hardness range: 40 – 50 Sh D
- Transparent material

### Key Features

- Outstanding mechanics
- High elasticity
- Superior adhesion to PP
- Sterilizable
- DMF listed

### Applications

- Drip chambers
- Luer lock adapters
- Tourniquets



# THERMOLAST® M

## Performance Adhesion

### MC/AD1 – Series

- Hardness range: 30 – 70 Sh A
- Translucent material

### Key Features

- Adhesion to PET/PETG, ABS, PC, and many more
- Well balanced mechanical properties
- Sterilizable
- DMF listed

### Applications

- Membranes & valves
- Seals & gaskets
- Soft touch surfaces



# THERMOLAST® M

## Performance Adhesion

### MC/AD/PA – Series

- Hardness range: 60 – 70 Sh A
- Translucent material

### Key Features

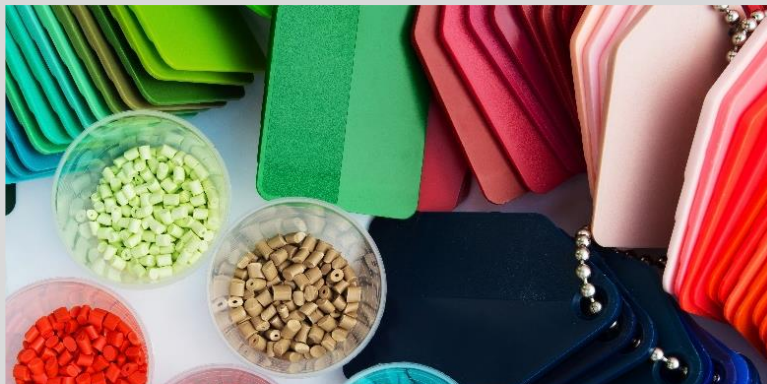
- Adhesion to PA6, PA66, PA12
- Excellent mechanics
- Silky surface
- Sterilizable
- ISO 10993-5 passed

### Applications:

- Seals & gaskets
- Soft touch surfaces
- Flexible connections



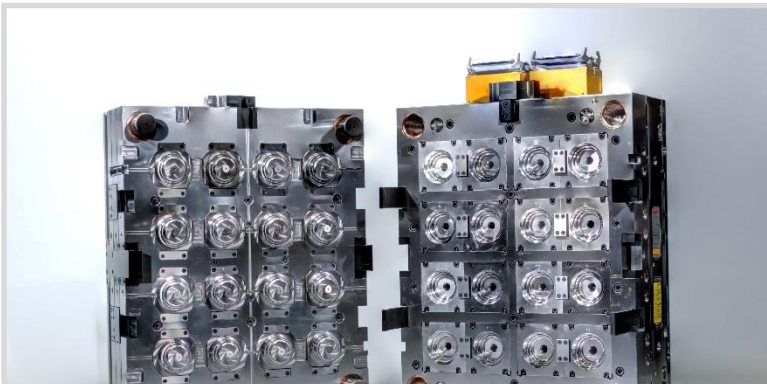
# Handling Advantages



Pre-coloration Possibilities



Reduced Handling Efforts



Optimized Processability



Easy Storage

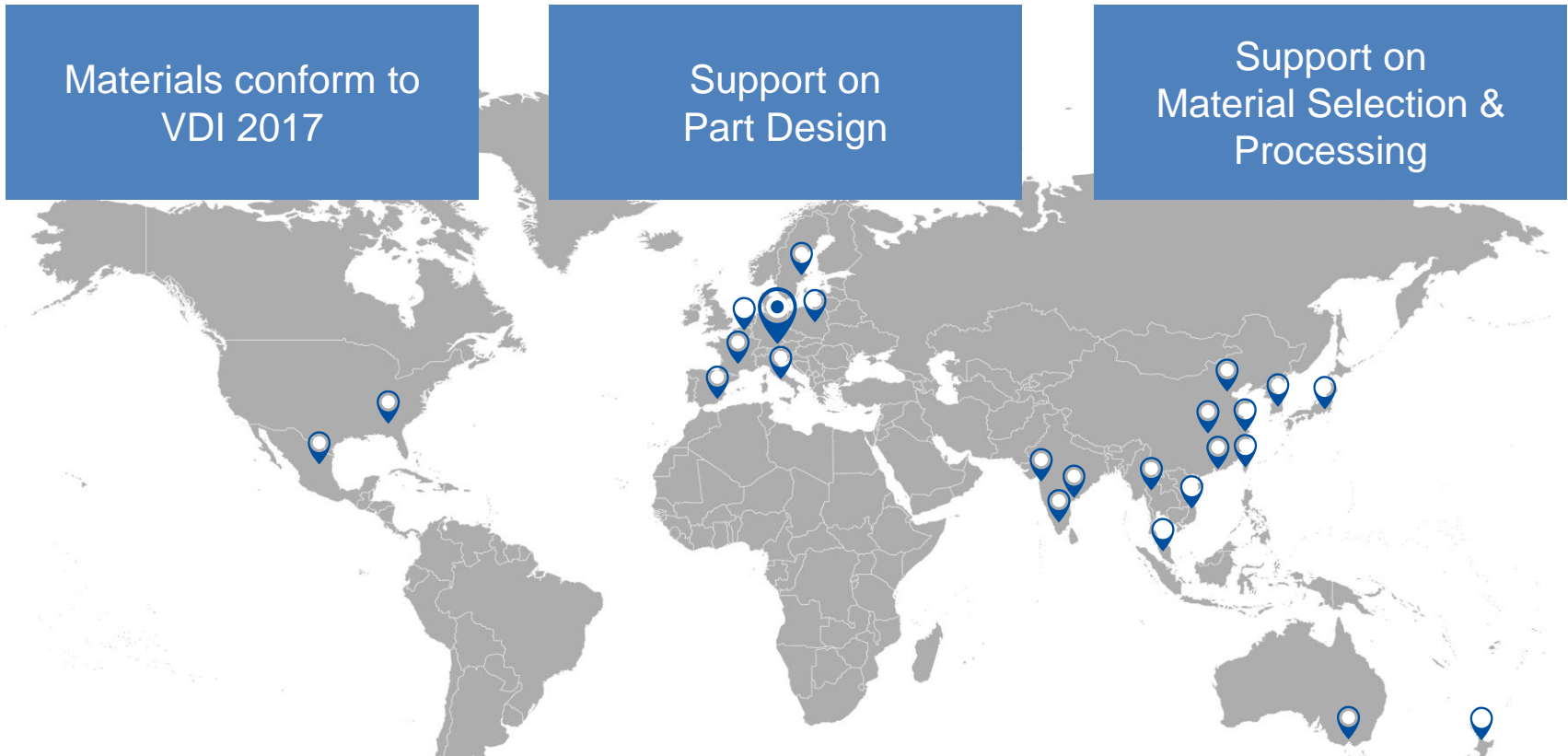
# KRAIBURG TPE

## Global Support & Material Availability

Materials conform to  
VDI 2017

Support on  
Part Design

Support on  
Material Selection &  
Processing



Material Testing

One World –  
One Material

Material Certification

# Disclaimer

The information provided in this document correspond to our knowledge on the subject at the date of ist publication and may be subject to revision as new knowledge and data become available. All values reported are typical values based on sample test resultsand 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. KRAIBURG TPE does not warrant or assume any liability with regards to the use of the information presented in this document.

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