

THERMOLAST® M TM0HET (Series: MC/HE)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

he 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 translucent colors.

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 (description below)

Sterilizable (autoclave 134°C, gamma radiation 2x35 kGy, EtO)

Tested according to ISO 10993-5

| General Information | | | |
|---|---------------------------------|-------------------|-------------|
| Features | Autoclave Sterilizable | | |
| | Ethylene Oxide Sterilizable | | |
| | Good Adhesion | | |
| | High Elasticity | | |
| | High Hardness | | |
| | High Stiffness | | |
| | No Animal Derived Components | | |
| | Radiation Sterilizable | | |
| Uses | Bottles | | |
| | Medical/Healthcare Applications | | |
| Agency Ratings | DMF 25601 | | |
| | ISO 10993 Part 5 | | |
| Appearance | Clear/Transparent | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.900 | g/cm ³ | ISO 1183 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore D) | 52 | | ISO 7619 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress ¹ (Yield) | 17.0 | MPa | ISO 37 |
| Tensile Elongation ² (Break) | 550 | % | ISO 37 |

| | | | |
|------------------------------|----|------|----------|
| Tear Strength ³ | 99 | kN/m | ISO 34-1 |
| Compression Set ⁴ | | | ISO 815 |
| 23°C, 72 hr | 42 | % | |
| 70°C, 24 hr | 95 | % | |
| 100°C, 24 hr | 98 | % | |

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Drying Temperature | 60.0 to 80.0 | °C |
| Drying Time | 2.0 to 4.0 | hr |
| Rear Temperature | 180 | °C |
| Middle Temperature | 200 | °C |
| Front Temperature | 220 | °C |
| Mold Temperature | 25.0 to 40.0 | °C |
| Injection Pressure | 20.0 to 100 | MPa |
| Back Pressure | 2.00 to 10.0 | MPa |

| 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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