

Mediprene® OF 900M

Thermoplastic Elastomer

ELASTO

Message:

The Mediprene oil free compounds were developed to address demands for transparent medical thermoplastic elastomer (TPE) grades with a minimum of potential extractables and leachables.

The Mediprene OF range, helps to prevent the possibility of oil migrating or leaching out of the material, a key requirement for medical and healthcare-related devices. They are ideal for sensitive medical applications where transparency is also required.

Regulatory compliance

Representative Mediprene grades have passed cytotoxicity tests according to ISO 10993-5 and are compliant with USP Class VI. Mediprene TPE materials are PVC, silicone and latex free, making them allergen free and a viable alternative to PVC based compounds.

| General Information | | | |
|--|---------------------------------|-------------------|-------------|
| Features | Ethylene Oxide Sterilizable | | |
| | Good Adhesion | | |
| | Low Extractables | | |
| | Radiation Sterilizable | | |
| | Steam Sterilizable | | |
| Uses | Medical/Healthcare Applications | | |
| | Tubing | | |
| Appearance | Clear/Transparent | | |
| | Colors Available | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.890 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) | 2.0 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A, 4.00 mm) | 90 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| -- | 18.0 | MPa | |
| 100% Strain | 5.80 | MPa | |
| 300% Strain | 7.50 | MPa | |
| Tensile Elongation (Break) | 600 | % | ASTM D638 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tear Strength | 69.0 | kN/m | ASTM D624 |

| Thermal | Nominal Value | Unit |
|----------------------------------|---------------------|------|
| Service Temperature ¹ | -50 to 125 | °C |
| Injection | Nominal Value | Unit |
| Rear Temperature | 180 to 230 | °C |
| Middle Temperature | 180 to 230 | °C |
| Front Temperature | 180 to 230 | °C |
| Mold Temperature | 20.0 to 50.0 | °C |
| Extrusion | Nominal Value | Unit |
| Cylinder Zone 1 Temp. | 150 to 210 | °C |
| Cylinder Zone 2 Temp. | 150 to 210 | °C |
| Cylinder Zone 3 Temp. | 150 to 210 | °C |
| Cylinder Zone 4 Temp. | 150 to 210 | °C |
| Cylinder Zone 5 Temp. | 150 to 210 | °C |
| NOTE | | |
| 1. | Unstressed Material | |

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