

# Mediprene® 500652M

Styrene Ethylene Butylene Styrene Block Copolymer

ELASTO

## Message:

The Mediprene 500M range of TPEs for medical applications includes several transparent grades. These compounds were developed in response to an increasing interest in transparent compounds from the medical market.

Mediprene TPE materials are PVC, silicone and latex free, making them allergen free and a viable alternative to PVC based compounds. They offer hardnesses from 30 to 90 Shore A, allowing a wide degree of design freedom.

| General Information                       |                             |                   |             |
|---|-----------------------------|-------------------|-------------|
| Features                                  | Good Clarity                |                   |             |
|   | Radiation disinfection      |                   |             |
|   | Good disinfection           |                   |             |
|   | Ethylene oxide disinfection |                   |             |
|   | Good flexibility            |                   |             |
|   | Good adhesion               |                   |             |
|   | Soft                        |                   |             |
|   | Disinfect with steam        |                   |             |
| Uses                                      | Medical/nursing supplies    |                   |             |
| Appearance                                | Clear/transparent           |                   |             |
| Processing Method                         | Extrusion                   |                   |             |
|   | Injection molding           |                   |             |
| Physical                                  | Nominal Value               | Unit              | Test Method |
| Specific Gravity                          | 0.890                       | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 8.0                         | g/10 min          | ASTM D1238  |
| Hardness                                  | Nominal Value               | Unit              | Test Method |
| Durometer Hardness (Shore A, 4.00 mm)     | 65                          |                   | ASTM D2240  |
| Mechanical                                | Nominal Value               | Unit              | Test Method |
| Tensile Strength                          |                             |                   | ASTM D638   |
| --  | 7.00                        | MPa               | ASTM D638   |
| 100% strain                               | 2.50                        | MPa               | ASTM D638   |
| 300% strain                               | 3.80                        | MPa               | ASTM D638   |
| Tensile Elongation (Break)                | > 500                       | %                 | ASTM D638   |
| Elastomers                                | Nominal Value               | Unit              | Test Method |
| Tear Strength                             | 36000                       | kN/m              | ASTM D624   |
| Injection                                 | Nominal Value               | Unit              |             |
| Processing (Melt) Temp                    | 150 - 210                   | °C                |             |
| Mold Temperature                          | 20 - 40                     | °C                |             |

| Extrusion        | Nominal Value | Unit |
|------------------|---------------|------|
| Melt Temperature | 140 - 180     | °C   |

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