

Mediprene® 520350M

Styrene Ethylene Butylene Styrene Block Copolymer
ELASTO

Message:

Preliminary datasheet
Mediprene® 520350: Thermoplastic Elastomer
Basic material: TPS-SEBS
Hardness: 35 Shore D (4 mm)
Service temperature range: -50 -- +125°C (unstressed material)
Colour: Translucent, but can be available in any colour.
Presentation: Free flowing pellets that can be processed without predrying, when stored under normal conditions.
Weather Resistance: Good
Chemical Resistance: Good (excluding organic solvents, aromatic- and vegetable oils)
Recycling: 100% recyclable
Special Features: The material is based on medically approved raw materials.

| General Information | | | |
|--|---------------------------------|----------|-------------|
| Features | Good Chemical Resistance | | |
| | Good Processability | | |
| | Good Weather Resistance | | |
| | Recyclable Material | | |
| Uses | Medical/Healthcare Applications | | |
| Appearance | Colors Available | | |
| | Translucent | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.890 | g/cm³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) | 6.0 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D, 4.00 mm) | 35 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | | | ASTM D638 |
| 100% Secant | 6.60 | MPa | |
| 300% Secant | 8.00 | MPa | |
| Tensile Strength | 24.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 700 | % | ASTM D638 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tear Strength | 70.0 | kN/m | ASTM D624 |

| Thermal | Nominal Value | Unit |
|-----------------------|---------------|------|
| Service Temperature | -50 to 125 | °C |
| Injection | Nominal Value | Unit |
| Rear Temperature | 190 to 230 | °C |
| Middle Temperature | 190 to 230 | °C |
| Front Temperature | 190 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 |

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Recommended distributors for this material

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