# Eviva® EV-500
## polysulfone

Eviva® EV-500 polysulfone (PSU) is offered for use in implantable medical devices. Eviva® EV-500 is the neat version of the polymer and Eviva® EV-501 is an opaque white grade.

The manufacturing facility for Eviva® PSU in Alpharetta, GA is ISO 13485 registered and the relevant aspects of current Good Manufacturing Practices are also applied. Our biomaterial manufacturing processes are carefully validated, and enhanced controls provide product traceability. In addition, all materials are tested in a lab that is ISO 17025 accredited.

An FDA MAF is available.

| General | | |
|---|---|---|
| Material Status | • Commercial: Active | |
| Availability | • Asia Pacific<br>• Europe | • North America |
| Uses | • Body Implants | • Medical/Healthcare Applications |
| Agency Ratings | • ISO 10993 | • ISO 13485 |
| Appearance | • Clear/Transparent | |
| Forms | • Pellets | |

| Physical | Typical Value | Unit | Test method |
|---|---|---|---|
| Density / Specific Gravity | 1.22 to 1.26 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (343°C/2.16 kg) | 5.0 to 9.0 | g/10 min | ASTM D1238 |

| Mechanical | Typical Value | Unit | Test method |
|---|---|---|---|
| Tensile Modulus | > 2300 | MPa | ASTM D638 |
| Tensile Strength (Yield) | > 70.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | > 20 | % | ASTM D638 |

| Thermal | Typical Value | Unit | Test method |
|---|---|---|---|
| Deflection Temperature Under Load | | | ASTM D648 |
| 1.8 MPa, Annealed | > 168 | °C | |

| Additional Information | Typical Value | Unit | Test method |
|---|---|---|---|
| Cytotoxicity | Pass | | ISO 10993:5 |
| Physiochemical Testing | Pass | | ISO 10993:18 |

## Notes

Typical properties: these are not to be construed as specifications.

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## www.syensqo.com

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