



Typical Properties of

Semitron® ESd 410c

Electro Static Dissipative Polyetherimide

Process: Compression Molded

| Property | Test Method | Unit | Value |
|--|----------------|------------------------------|----------------------|
| Specific Gravity | D792 | -- | 1.41 |
| Tensile Strength | D638 | psi | 9,000 |
| Tensile Modulus | D638 | psi | 850,000 |
| Elongation | D638 | % | 2 |
| Flexural Strength | D790 | psi | 12,000 |
| Flexural Modulus | D790 | psi | 850,000 |
| Compressive Strength | D695 | psi | 19,500 |
| Compressive Modulus | D695 | psi | 600,000 |
| Hardness, Rockwell | D785 | -- | M115 (R125) |
| Hardness Durometer | -- | -- | D85 |
| Izod Impact (notched) | D256 | ft. lb of notch | 0.8 |
| Coeff. of Friction (Dynamic) | -- | dry v.s steel | 0.18 |
| Coeff. of Linear Therm. Expan. | E831/ D696 | in./in./°F | 1.8×10^{-5} |
| Continuous Use Temperature | -- | °F | 340 |
| Heat Deflection Temperature | D648 | °F | 410 |
| Glass Transition Temperature | D3418 | °F | 410 |
| Melting Point | D3418 | °F | N / A |
| Thermal Conductivity | E1530-11 | BTU in/hr ft ² °F | 2.45 |
| Dielectric Strength | D149 | Volts/mil | N / A |
| Surface Resistivity | EOS/ESD 511.11 | ohm/square | $10^4 - 10^6$ |
| Flammability | UL94 | -- | V-0 |
| Water Absorption, 24 hrs. | D570 | % by weight | 0.3 |
| Water Absorption, Saturation | D570 | % by weight | 1.1 |
| Limiting PV (4:1 Safety Factor) | -- | -- | 12,000 |
| K-Factor | -- | -- | 125 |
| FDA Compliance | -- | -- | No |

Note: The data provided is for reference purposes only. Additional testing may be required for design specifications or quality control.
All values at 73 F unless otherwise stated.