



InElec® POMCSS5

PRODUCT DESCRIPTION InElec POMCSS5 is a copolymer Acetal with Stainless Steel fiber

MATERIAL STATUS Commercial: Active

AVAILABILITY Africa & Middle East, Asia Pacific, Europe, Latin America, North America

FILLER / REINFORCEMENT Nickel-Coated Carbon Fiber, 5.0% Filler by Weight

FEATURES Permanent Antistatic

USES Consumer Applications, Electrical/Electronic Applications, Engineering Parts, Industrial Applications, Office Automation Equipment

FORMS Pellets

PROCESSING METHOD Injection Molding

| PHYSICAL | NOMINAL VALUE | UNIT | TEST METHOD |
|--|---------------|-------------------|-------------|
| Density / Specific Gravity | 1.46 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 1.0 to 2.0 | % | ASTM D955 |
| MECHANICAL | NOMINAL VALUE | UNIT | TEST METHOD |
| Tensile Modulus | 2960 | MPa | ASTM D638 |
| Tensile Strength | 62.1 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 10 to 12 | % | ASTM D638 |
| Flexural Modulus | 3100 | MPa | ASTM D790 |
| Flexural Strength | 68.9 | MPa | ASTM D790 |
| IMPACT | NOMINAL VALUE | UNIT | TEST METHOD |
| Notched Izod Impact (3.18 mm) | 110 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 480 | J/m | ASTM D4812 |
| THERMAL | NOMINAL VALUE | UNIT | TEST METHOD |
| Deflection Temperature Under Load 1.8 MPa, Unannealed | 100 | °C | ASTM D648 |
| CLTE - Flow | 9.9E-5 | cm/cm/°C | ASTM D696 |
| ELECTRICAL | NOMINAL VALUE | UNIT | TEST METHOD |
| Surface Resistivity | 10 to 1.0E+4 | ohms | |
| FLAMMABILITY | NOMINAL VALUE | UNIT | TEST METHOD |
| Flame Rating (1.6 mm) | HB | | UL 94 |



| INJECTION | NOMINAL VALUE | UNIT |
|------------------------|----------------------|-------------|
| Drying Temperature | 82 | °C |
| Drying Time | 4.0 | hr |
| Processing (Melt) Temp | 191 to 210 | °C |
| Mold Temperature | 93 | °C |
| Back Pressure | 0.345 to 0.689 | MPa |
| Screw Speed | 30 to 60 | rpm |

NOTES

¹ Typical properties: these are not to be construed as specifications.

