# PREMIER™ A220-ST

Polycarbonate + ABS

Chomerics, div. of Parker Hannifin Corp.

## Message:

PREMIER™ is the world's first and most versatile commercially available conductive thermoplastic for real world EMI shielding solutions. It is a blend of PC/ABS thermoplastic polymer alloys and conductive fillers engineered for stable electrical, mechanical, and physical performance. The conductive filler technology utilizes nickel plated carbon (Ni-C) fibers as the base filler. In the case of higher shielding versions, Nickel-Graphite (Ni-C) powder is blended with the fiber base to deliver enhanced performance.

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Nickel-Coated Carbon Fiber | | |
| Features | Electrically Conductive<br>Electromagnetic Shielding (EMI)<br>Good Corrosion Resistance<br>Halogen Free<br>High Tensile Strength<br>Low Density<br>Non-Corrosive<br>Recyclable Material | | |
| Uses | Automotive Applications<br>Consumer Applications<br>Electrical/Electronic Applications<br>Industrial Applications<br>Military Applications<br>Telecommunications | | |
| Agency Ratings | EU Unspecified Rating | | |
| RoHS Compliance | RoHS Compliant | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.20 | g/cm³ | ASTM D3763 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 6000 | MPa | ASTM D638 |
| Tensile Strength (Break) | 78.6 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 1.7 | % | ASTM D638 |
| Flexural Modulus | 5400 | MPa | ASTM D790 |
| Flexural Strength | 121 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact | 77 | J/m | ASTM D412 |

| | | | |
|---|---|---|---|
| Unnotched Izod Impact | 300 | J/m | ASTM D412 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 128 | °C | ASTM D648 |
| CLTE - Flow | 2.9E-5 | cm/cm/°C | ASTM D696 |
| Thermal Conductivity | 0.56 | W/m/K | ASTM D5470 |
| RTI Elec | 105 | °C | UL 746 |
| RTI Imp | 105 | °C | UL 746 |
| RTI Str | 105 | °C | UL 746 |
| **Electrical** | **Nominal Value** | **Unit** | |
| Surface Resistivity | 4.5 | ohms | |
| Volume Resistivity | 0.80 | ohms·cm | |



## Recommended distributors for this material

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