

## PolyOne Stat-Tech™ AS-10NCF/000 ABS - 10% Nickel Coated Carbon Fiber (discontinued \*\*)

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

Data provided by PolyOne.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Stat-Tech-AS-10NCF000-ABS-10-Nickel-Coated-Carbon-Fiber-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-AS-10NCF000-ABS-10-Nickel-Coated-Carbon-Fiber-nbspdiscontinued-.php)

| Physical Properties   | Metric                       | English                       | Comments                    |
|-----------------------|------------------------------|-------------------------------|-----------------------------|
| Specific Gravity      | 1.12 g/cc                    | 1.12 g/cc                     | ASTM D792                   |
| Water Absorption      | 0.15 %<br>@Thickness 3.17 mm | 0.15 %<br>@Thickness 0.125 in | 24 hr. Immersion; ASTM D570 |
| Linear Mold Shrinkage | 0.0020 - 0.0030 cm/cm        | 0.0020 - 0.0030 in/in         | ASTM D955                   |

| Mechanical Properties   | Metric   | English   | Comments                                      |
|-------------------------|--|---|---|
| Tensile Strength, Yield | 48.3 MPa   | 7000 psi  | Type 1 - Rigids, Yield, 0.2 in/min; ASTM D638 |
| Elongation at Break     | 1.0 - 3.0 %  | 1.0 - 3.0 %   | Type 1 - Rigids, 0.2 in/min; ASTM D638        |
| Tensile Modulus         | 4.14 GPa   | 600 ksi   | Type 1 - Rigids, 0.2 in/min; ASTM D638        |
| Flexural Strength       | 68.9 MPa   | 10000 psi   | ASTM D790                                     |
| Flexural Modulus        | 4.14 GPa   | 600 ksi   | ASTM D790                                     |
| Izod Impact, Notched    | 0.481 J/cm<br>@Thickness 6.35 mm,<br>Temperature 23.0 °C | 0.900 ft-lb/in<br>@Thickness 0.250 in,<br>Temperature 73.4 °F | Method A, Injection Molded; ASTM D256         |

| Thermal Properties                          | Metric  | English | Comments              |
|---|---------|---------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 107 °C  | 225 °F  | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 96.1 °C | 205 °F  | Unannealed; ASTM D648 |

| Electrical Properties          | Metric           | English          | Comments  |
|--------------------------------|------------------|------------------|-----------|
| Volume Resistivity             | 1.0 - 100 ohm-cm | 1.0 - 100 ohm-cm | ASTM D257 |
| Surface Resistivity per Square | 1.0 - 100 ohm    | 1.0 - 100 ohm    | ASTM D257 |

| Shielding Effectiveness<br>Electrical Properties | 30 - 60 dB<br>Metric | 30 - 60 dB<br>English | 1,000 MHz: PolyOne Internal<br>Comments |
|--|----------------------|-----------------------|---|
| Processing Properties                            | Metric               | English               | Comments                                |
| Melt Temperature                                 | 204 - 232 °C         | 400 - 450 °F          | Molding                                 |

## Contact Songhan Plastic Technology Co.,Ltd.

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