

## PolyOne Stat-Tech™ RA-06CF-09GF/000 EM Polyarylsulfone - ESD Applications - Flow Enhanced Grade (discontinued)

Category : Polymer , Thermoplastic , Polyarylsulfone (PAS) , Polyarylsulfone; Molded/Extruded

### Material Notes:

Data provided by PolyOne.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Stat-Tech-RA-06CF-09GF000-EM-Polyarylsulfone-ESD-Applications-Flow-Enhanced-Grade-nbspdiscontinued.php](http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-RA-06CF-09GF000-EM-Polyarylsulfone-ESD-Applications-Flow-Enhanced-Grade-nbspdiscontinued.php)

| Physical Properties   | Metric  | English   | Comments          |
|-----------------------|---|---|-------------------|
| Density               | 1.44 g/cc   | 0.0520 lb/in <sup>3</sup>                           | ASTM D792         |
| Water Absorption      | 0.38 %  | 0.38 %  | 24 hrs. ASTM D570 |
| Linear Mold Shrinkage | 0.0020 cm/cm<br>@Thickness 3.17 mm                  | 0.0020 in/in<br>@Thickness 0.125 in                 | ASTM D955         |
| Melt Flow             | 20 g/10 min<br>@Load 5.00 kg,<br>Temperature 355 °C | 20 g/10 min<br>@Load 11.0 lb,<br>Temperature 671 °F | ASTM D1238        |

| Mechanical Properties      | Metric                           | English                              | Comments  |
|----------------------------|----------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell M       | 98                               | 98                                   | ASTM D785 |
| Tensile Strength, Ultimate | 131 MPa                          | 19000 psi                            | ASTM D638 |
| Elongation at Break        | 3.0 - 4.0 %                      | 3.0 - 4.0 %                          | ASTM D638 |
| Flexural Yield Strength    | 207 MPa                          | 30000 psi                            | ASTM D790 |
| Flexural Modulus           | 7.60 GPa                         | 1100 ksi                             | ASTM D790 |
| Izod Impact, Notched       | 0.640 J/cm<br>@Thickness 6.35 mm | 1.20 ft-lb/in<br>@Thickness 0.250 in | ASTM D256 |

| Thermal Properties                          | Metric                               | English                                | Comments     |
|---|--------------------------------------|--|--------------|
| CTE, linear                                 | 39.6 µm/m-°C<br>@Temperature 20.0 °C | 22.0 µin/in-°F<br>@Temperature 68.0 °F | ASTM D696    |
| Deflection Temperature at 1.8 MPa (264 psi) | 213 °C                               | 415 °F                                 | ASTM D648    |
| Flammability, UL94                          | V-0                                  | V-0                                    | CTi Test V-0 |

| Electrical Properties | Metric                    | English                   | Comments  |
|-----------------------|---------------------------|---------------------------|-----------|
| Surface Resistance    | 1.00e+6 - 1.00e+10<br>ohm | 1.00e+6 - 1.00e+10<br>ohm | ASTM D257 |

| Processing Properties | Metric       | English      | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature      | 343 - 377 °C | 649 - 711 °F | Stock    |
| Mold Temperature      | 121 - 149 °C | 250 - 300 °F |          |
| Drying Temperature    | 135 °C       | 275 °F       |          |

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