

## PolyOne Edgetek® ET3500-5002 BK Acrylonitrile Styrene Acrylate + PC (ASA+PC)

Category : Polymer , Thermoplastic , ASA Polymer , Polycarbonate (PC)

### Material Notes:

The Edgetek™ Engineering Thermoplastic Compounds portfolio covers a broad range of standard and custom-formulated high performance materials. This portfolio includes high-temperature materials for elevated service temperature environments, high-modulus / structural materials for load-bearing and high-strength applications and flame-retardant products. These compounds are based on select engineering thermoplastic resins that are compounded with reinforcing additives such as carbon fiber, glass fiber and glass beads. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Edgetek-ET3500-5002-BK-Acrylonitrile-Styrene-Acrylate-PC-ASAPC.php](http://www.lookpolymers.com/polymer_PolyOne-Edgetek-ET3500-5002-BK-Acrylonitrile-Styrene-Acrylate-PC-ASAPC.php)

| Physical Properties         | Metric                                                   | English                                                  | Comments            |
|-----------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|
| Density                     | 1.23 g/cc<br>@Temperature 23.0 °C                        | 0.0444 lb/in³<br>@Temperature 73.4 °F                    | ±0.02; ISO 1183     |
| Water Absorption            | 0.15 %                                                   | 0.15 %                                                   | @ 24 hrs; ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0010 - 0.0020 cm/cm                                    | 0.0010 - 0.0020 in/in                                    | ASTM D955           |
| Melt Flow                   | 17 - 22 g/10 min<br>@Load 2.16 kg,<br>Temperature 300 °C | 17 - 22 g/10 min<br>@Load 4.76 lb,<br>Temperature 572 °F | ISO 1133            |
| Melt Index of Compound      | 13 - 16 g/10 min<br>@Load 21.6 kg,<br>Temperature 300 °C | 13 - 16 g/10 min<br>@Load 47.6 lb,<br>Temperature 572 °F | cm³/10min; ISO 1133 |

| Mechanical Properties     | Metric                                                 | English                                                  | Comments                       |
|---------------------------|--------------------------------------------------------|----------------------------------------------------------|--------------------------------|
| Tensile Strength at Break | 100 MPa<br>@Thickness 4.00 mm,<br>Temperature 23.0 °C  | 14500 psi<br>@Thickness 0.157 in,<br>Temperature 73.4 °F | Injection Molded; ISO 527-2/50 |
| Elongation at Break       | 2.2 %<br>@Thickness 4.00 mm,<br>Temperature 23.0 °C    | 2.2 %<br>@Thickness 0.157 in,<br>Temperature 73.4 °F     | Injection Molded; ISO 527-2/50 |
| Tensile Modulus           | 5.90 GPa<br>@Thickness 4.00 mm,<br>Temperature 23.0 °C | 856 ksi<br>@Thickness 0.157 in,<br>Temperature 73.4 °F   | Injection Molded; ISO 527-2/1  |
| Charpy Impact Unnotched   | 3.70 J/cm²<br>@Temperature 23.0 °C                     | 17.6 ft-lb/in²<br>@Temperature 73.4 °F                   | Injection Molded; ISO 179      |

| Mechanical Properties  | Metric               | English              | Comments                   |
|------------------------|----------------------|----------------------|----------------------------|
| Charpy Impact, Notched | 0.800 J/cm²          | 3.81 ft-lb/in²       | Injection Molding; ISO 179 |
|                        | @Temperature 23.0 °C | @Temperature 73.4 °F |                            |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
| Flammability, UL94 | HB     | HB      | UL 94    |

| Electrical Properties | Metric             | English            | Comments  |
|-----------------------|--------------------|--------------------|-----------|
| Volume Resistivity    | >= 1.00e+15 ohm-cm | >= 1.00e+15 ohm-cm | ASTM D257 |
| Surface Resistance    | >= 1.00e+14 ohm    | >= 1.00e+14 ohm    | ASTM D257 |

| Processing Properties | Metric           | English          | Comments |
|-----------------------|------------------|------------------|----------|
| Melt Temperature      | 280 - 320 °C     | 536 - 608 °F     |          |
| Mold Temperature      | 82.0 - 110 °C    | 180 - 230 °F     |          |
| Drying Temperature    | 120 °C           | 248 °F           |          |
| Dry Time              | 3.00 - 4.00 hour | 3.00 - 4.00 hour |          |

| Descriptive Properties | Value                                           | Comments |
|------------------------|-------------------------------------------------|----------|
| Features               | Low Warpage                                     |          |
| Filler / Reinforcement | Glass Fiber Reinforcement, 12% Filler by Weight |          |
| Forms                  | Pellets                                         |          |
| Generic Material       | ASA+PC                                          |          |
| Generic Name           | Acrylonitrile Styrene Acrylate + PC (ASA+PC)    |          |
| Regional Availability  | Europe                                          |          |
| RoHS Compliance        | RoHS Compliant                                  |          |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China