

## PolyOne Edgetek® AS-30GF/000 BLACK Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Edgetek-AS-30GF000-BLACK-Acrylonitrile-Butadiene-Styrene-ABS.php](http://www.lookpolymers.com/polymer_PolyOne-Edgetek-AS-30GF000-BLACK-Acrylonitrile-Butadiene-Styrene-ABS.php)

| Physical Properties               | Metric                                      | English                                      | Comments  |
|-----------------------------------|---|--|-----------|
| Specific Gravity                  | 1.27 g/cc                                   | 1.27 g/cc                                    | ASTM D792 |
| Linear Mold Shrinkage, Flow       | 0.0010 - 0.0030 cm/cm<br>@Thickness 3.18 mm | 0.0010 - 0.0030 in/in<br>@Thickness 0.125 in | ASTM D955 |
| Linear Mold Shrinkage, Transverse | 0.0060 - 0.0080 cm/cm<br>@Thickness 3.18 mm | 0.0060 - 0.0080 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties     | Metric      | English        | Comments              |
|---------------------------|-------------|----------------|-----------------------|
| Tensile Strength at Break | 75.8 MPa    | 11000 psi      | 5.1 mm/min; ASTM D638 |
| Elongation at Break       | 1.0 - 2.0 % | 1.0 - 2.0 %    | ASTM D638             |
| Tensile Modulus           | 8.96 GPa    | 1300 ksi       | 5.1 mm/min; ASTM D638 |
| Flexural Strength         | 110 MPa     | 16000 psi      | 1.3 mm/min; ASTM D790 |
| Flexural Modulus          | 7.45 GPa    | 1080 ksi       | 1.3 mm/min; ASTM D790 |
| Izod Impact, Notched      | 0.530 J/cm  | 0.993 ft-lb/in | ASTM D256             |

| Thermal Properties                          | Metric  | English | Comments              |
|---|---------|---------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 102 °C  | 216 °F  | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 96.0 °C | 205 °F  | Unannealed; ASTM D648 |

| Descriptive Properties | Value                     | Comments |
|------------------------|---------------------------|----------|
| Features               | Amorphous                 |          |
|                        | Good Moldability          |          |
|                        | Low Shrinkage             |          |
| Filler / Reinforcement | Glass Fiber Reinforcement |          |

| <b>Forms</b><br>Descriptive Properties | <b>Pellets</b><br>Value               | Comments   |
|--|---------------------------------------|------------|
| Generic Material                       | ABS                                   |            |
| Generic Name                           | Acrylonitrile Butadiene Styrene (ABS) |            |
| Regional Availability                  | Africa & Middle East                  |            |
|  | Asia Pacific                          |            |
|  | Europe                                |            |
|  | North America                         |            |
|  | South America                         |            |
|  | Uses                                  | Appliances |
|  | Automotive Applications               |            |
|  | Consumer Applications                 |            |
|  | General Purpose                       |            |
|  | Industrial Applications               |            |
|  | Structural Parts                      |            |

## Contact Songhan Plastic Technology Co.,Ltd.

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