

## Star Plastics ABSGF30 Molding Grade ABS With 30% Glass

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 30% Glass Fiber Filled

### Material Notes:

Information provided by Star Plastics, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Star-Plastics-ABSGF30-Molding-Grade-ABS-With-30-Glass.php](http://www.lookpolymers.com/polymer_Star-Plastics-ABSGF30-Molding-Grade-ABS-With-30-Glass.php)

| Physical Properties      | Metric                                                | English                                               | Comments   |
|--------------------------|-------------------------------------------------------|-------------------------------------------------------|------------|
| Specific Gravity         | 1.30 g/cc                                             | 1.30 g/cc                                             | ASTM D792  |
| Maximum Moisture Content | 0.15                                                  | 0.15                                                  |            |
| Linear Mold Shrinkage    | 0.0010 - 0.0020 cm/cm                                 | 0.0010 - 0.0020 in/in                                 | ASTM D955  |
| Melt Flow                | 5.0 g/10 min<br>@Load 3.80 kg,<br>Temperature 230 Â°C | 5.0 g/10 min<br>@Load 8.38 lb,<br>Temperature 446 Â°F | ASTM D1238 |

| Mechanical Properties   | Metric     | English       | Comments                    |
|-------------------------|------------|---------------|-----------------------------|
| Tensile Strength, Yield | 65.5 MPa   | 9500 psi      | ASTM D638                   |
| Tensile Modulus         | 5.86 GPa   | 850 ksi       | ASTM D638                   |
| Flexural Yield Strength | 98.6 MPa   | 14300 psi     | ASTM D790                   |
| Flexural Modulus        | 6.83 GPa   | 990 ksi       | ASTM D790                   |
| Izod Impact, Notched    | 0.534 J/cm | 1.00 ft-lb/in | 73Â°F, 0.125 in.; ASTM D256 |

| Thermal Properties                          | Metric  | English | Comments                      |
|---------------------------------------------|---------|---------|-------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 102 Â°C | 215 Â°F | unannealed, .125in; ASTM D648 |

| Processing Properties     | Metric          | English       | Comments |
|---------------------------|-----------------|---------------|----------|
| Rear Barrel Temperature   | 188 - 218 Â°C   | 370 - 425 Â°F |          |
| Middle Barrel Temperature | 204 - 232 Â°C   | 400 - 450 Â°F |          |
| Front Barrel Temperature  | 218 - 246 Â°C   | 425 - 475 Â°F |          |
| Nozzle Temperature        | 218 - 274 Â°C   | 425 - 525 Â°F |          |
| Melt Temperature          | 218 - 274 Â°C   | 425 - 525 Â°F |          |
| Mold Temperature          | 48.9 - 76.7 Â°C | 120 - 170 Â°F |          |

| Processing Properties | Metric            | English        | Comments |
|-----------------------|-------------------|----------------|----------|
| Dry Time              | 2 - 4 hour        | 2 - 4 hour     |          |
| Back Pressure         | 0.172 - 0.689 MPa | 25.0 - 100 psi |          |
| Screw Speed           | 25 - 75 rpm       | 25 - 75 rpm    |          |

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