

## Polymer Resources ABS-G20 ABS, 20% Glass Reinforced

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 20% Glass Fiber Filled

### Material Notes:

Acrylonitrile Butadiene Styrene, 20% Glass Reinforced  
 Process: Injection Molding  
 Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Information provided by Polymer Resources Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polymer-Resources-ABS-G20-ABS-20-Glass-Reinforced.php](http://www.lookpolymers.com/polymer_Polymer-Resources-ABS-G20-ABS-20-Glass-Reinforced.php)

| Physical Properties   | Metric                                                      | English                                                     | Comments   |
|-----------------------|-------------------------------------------------------------|-------------------------------------------------------------|------------|
| Specific Gravity      | 1.19 g/cc                                                   | 1.19 g/cc                                                   | ASTM D792  |
| Linear Mold Shrinkage | 0.0010 - 0.0030 cm/cm                                       | 0.0010 - 0.0030 in/in                                       | ASTM D955  |
| Melt Flow             | 0.10 - 5.0 g/10 min<br>@Load 3.80 kg,<br>Temperature 230 °C | 0.10 - 5.0 g/10 min<br>@Load 8.38 lb,<br>Temperature 446 °F | ASTM D1238 |

| Mechanical Properties     | Metric                             | English                               | Comments  |
|---------------------------|------------------------------------|---------------------------------------|-----------|
| Tensile Strength at Break | 86.2 MPa                           | 12500 psi                             | ASTM D638 |
| Tensile Strength, Yield   | 86.2 MPa                           | 12500 psi                             | ASTM D638 |
| Elongation at Yield       | 1.5 %                              | 1.5 %                                 | ASTM D638 |
| Tensile Modulus           | 6.21 GPa                           | 900 ksi                               | ASTM D638 |
| Flexural Strength         | 117 MPa                            | 17000 psi                             | ASTM D790 |
| Flexural Modulus          | 6.24 GPa                           | 905 ksi                               | ASTM D790 |
| Izod Impact, Notched      | 0.534 J/cm<br>@Temperature 22.8 °C | 1.00 ft-lb/in<br>@Temperature 73.0 °F | ASTM D256 |
| Izod Impact, Unnotched    | 2.67 J/cm<br>@Temperature 22.8 °C  | 5.00 ft-lb/in<br>@Temperature 73.0 °F | ASTM D256 |

| Thermal Properties                          | Metric                   | English                    | Comments  |
|---------------------------------------------|--------------------------|----------------------------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 107 °C                   | 225 °F                     | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 101 °C                   | 213 °F                     | ASTM D648 |
| Flammability, UL94                          | HB<br>@Thickness 1.59 mm | HB<br>@Thickness 0.0626 in |           |

| Thermal Properties | <sup>°C</sup><br>Metric | <sup>°F</sup><br>English | Comments |
|--------------------|-------------------------|--------------------------|----------|
|                    | @Thickness 3.17 mm      | @Thickness 0.125 in      |          |

| Processing Properties     | Metric           | English          | Comments |
|---------------------------|------------------|------------------|----------|
| Rear Barrel Temperature   | 191 - 199 °C     | 375 - 390 °F     |          |
| Middle Barrel Temperature | 210 - 221 °C     | 410 - 430 °F     |          |
| Front Barrel Temperature  | 210 - 227 °C     | 410 - 440 °F     |          |
| Melt Temperature          | 210 - 238 °C     | 410 - 460 °F     |          |
| Mold Temperature          | 48.9 - 60.0 °C   | 120 - 140 °F     |          |
| Drying Temperature        | 79.4 - 85.0 °C   | 175 - 185 °F     |          |
| Dry Time                  | 3.00 - 4.00 hour | 3.00 - 4.00 hour |          |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Vent                   | 0.001 |          |

## 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