

## PlastxWorld CEVIAN® VGR20 20% GF ABS

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

### Material Notes:

Glass fiber reinforced ABS. These are typical values and are not intended for specification purposes. UL approved file No. is E47773.

Information provided by PlastxWorld Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PlastxWorld-CEVIAN-VGR20-20-GF-ABS.php](http://www.lookpolymers.com/polymer_PlastxWorld-CEVIAN-VGR20-20-GF-ABS.php)

| Physical Properties   | Metric                | English                   | Comments         |
|-----------------------|-----------------------|---------------------------|------------------|
| Density               | 1.19 g/cc             | 0.0430 lb/in <sup>3</sup> | ASTM D792        |
| Water Absorption      | 0.30 %                | 0.30 %                    | 24 hr; ASTM D570 |
| Linear Mold Shrinkage | 0.0010 - 0.0040 cm/cm | 0.0010 - 0.0040 in/in     | ASTM D955        |

| Mechanical Properties   | Metric                          | English                              | Comments  |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 115                             | 115                                  | ASTM D785 |
| Tensile Strength, Yield | 78.6 MPa                        | 11400 psi                            | ASTM 638  |
| Flexural Yield Strength | 118 MPa                         | 17100 psi                            | ASTM D790 |
| Flexural Modulus        | 5.59 GPa                        | 811 ksi                              | ASTM D790 |
| Izod Impact, Notched    | 1.07 J/cm<br>@Thickness 3.17 mm | 2.00 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric                               | English                                | Comments                       |
|---------------------------------------------|--------------------------------------|----------------------------------------|--------------------------------|
| CTE, linear, Parallel to Flow               | 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) | 106 °C                               | 223 °F                                 | 0.5 inch unannealed; ASTM D648 |
| Vicat Softening Point                       | 112 °C                               | 234 °F                                 | ASTM D1525                     |
| Flammability, UL94                          | HB                                   | HB                                     |                                |

## Contact Songhan Plastic Technology Co.,Ltd.

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