

# Sogun® G2310

## Product Information

PC, excellent strength and heat resistance, non-chlorinated, non-brominated, flame retardant.

| Properties                                     | Typical Value | Units                   | Test Method  |
|------------------------------------------------|---------------|-------------------------|--------------|
| <b>Mechanical Properties</b>                   |               |                         |              |
| Tensile Modulus, 1 mm/min                      | 3600          | MPa                     | ISO 527-1/-2 |
| Tensile Stress at Break, 5 mm/min              | 45            | MPa                     | ISO 527-1/-2 |
| Tensile Strain at Yield, 5 mm/min              | 5             | %                       | ISO 527-1/-2 |
| Tensile Strain at Break, 5 mm/min              | 10            | %                       | ISO 527-1/-2 |
| Flexural Modulus, 2 mm/min                     | 3400          | MPa                     | ISO 178      |
| Flexural Strength, 2 mm/min                    | 95            | MPa                     | ISO 178      |
| Charpy Notched Impact Strength, +23°C          | 10            | KJ/m <sup>2</sup>       | ISO 179/1eA  |
| Charpy Notched Impact Strength, -30°C          | 9             | KJ/m <sup>2</sup>       | ISO 179/1eA  |
| <b>Thermal Properties</b>                      |               |                         |              |
| Temperature of Deflection Under Load, 1.8 MPa  | 135           | °C                      | ISO 75-1/-2  |
| Temperature of Deflection Under Load, 0.45 MPa | 140           | °C                      | ISO 75-1/-2  |
| Vicat Softening Temperature, Rate B/50         | 145           | °C                      | ISO 306      |
| Flame Resistant, 1.5 mm                        | V-0           | Class                   | UL 94        |
| <b>Electrical Properties</b>                   |               |                         |              |
| Relative Permittivity, 1 MHz                   | 3.2           | -                       | IEC 60250    |
| Volume Resistivity                             | 1E14          | Ohm.m                   | IEC 60093    |
| Surface Resistivity                            | 1E16          | Ohm                     | IEC 60093    |
| <b>Physical Properties</b>                     |               |                         |              |
| Density                                        | 1.26          | g/cm <sup>3</sup>       | ISO 1183     |
| Molding Shrinkage, 3.2 mm, Parallel / Normal   | 0.4 - 0.6     | %                       | ISO 2577     |
| Melt Volume-Flow Rate, 300°C / 1.2 kg          | 8             | cm <sup>3</sup> /10 min | ISO 1133     |
| <b>Injection Molding</b>                       |               |                         |              |
| Drying Temperature                             | 120           | °C                      | 4 hours      |
| Melt Temperature                               | 290 - 320     | °C                      | -            |
| Mould Temperature                              | 80 - 110      | °C                      | -            |

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Sogun® provided information about the product, whether data, recommendations or other information, is researched and trustworthy. Since there are many influencing factors in the production process, users are advised to conduct their own tests before production. The standard values are for reference only and should not be regarded as binding specifications.

Find more information or contact us at [www.sogun.com](http://www.sogun.com)