# Sogun® B3W

**Product Information**

Nylon Excellent impact resistance and UV stability, suitable for long-term outdoor products.

| Properties | Test Method | Unit | Value |
|---|---|---|---|
| **Mechanical Properties** | | | dry/cond. |
| Tensile modulus | ISO 527-1/-2 | MPa | 3200/1200 |
| Yield stress | ISO 527-1/-2 | MPa | 80/40 |
| Yield strain | ISO 527-1/-2 | % | 4/20 |
| Strain at break | ISO 527-1/-2 | % | 20/>50 |
| Flexural modulus | ISO 178 | MPa | 2800/900 |
| Flexural strength | ISO 178 | MPa | 100/40 |
| Izod notched impact strength, +23°C | ISO 180/1A | $KJ/m^2$ | 5/25 |
| Izod notched impact strength, -30°C | ISO 180/1A | $KJ/m^2$ | 5/3 |
| **Thermal Properties** | | | |
| HDT 1.8MPa | ISO 75 | ℃ | 55 |
| HDT 0.45MPa | ISO 75 | ℃ | 160 |
| Flame resistant, 0.8mm | UL 94 | Class | V-2 |
| **Electrical Properties** | | | dry/cond. |
| Relative permittivity, 1MHz | IEC 62631-2-1 | – | 3.5/7 |
| Volume resistivity | IEC 62631-3-1 | Ohm.m | 1E13/1E10 |
| Surface resistivity | IEC 62631-3-2 | Ohm | 1E13/1E10 |
| **Other Properties** | | | |
| Density | ISO 1183 | $g/cm^3$ | 1.14 |
| Humidity absorption, 2mm | Sim. to ISO 62 | % | 2.6 - 3.0 |
| Molding shrinkage | ISO 2577 | % | 0.65 |
| **Processing** | | | |
| Drying temperature | 4hr | ℃ | 80 |
| Melt temperature | – | ℃ | 260 - 280 |
| Mould temperature | – | ℃ | 60 - 80 |

03/2024
Sogun® provided information about the product, whether data, advice or other information, are researched and trustworthy. Since there are many influencing factors in the production process, it is recommended that users test themselves before production. Standard values are only symbolic and should not be construed as binding specifications.