## The Future Made Clear OHARA

## Properties of GD-FHT ${ }^{\text {TM }}$

|  | Properties | GD-FHT ${ }^{\text {m }}$ | Conventional Materials |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | S-BSL7(BK7) | Synthetic Fused Silica |
| Electrical Properties | Volume Resistivity* ( $\Omega \cdot \mathrm{cm}$ ) | $1.1 \times 10^{11}$ | $1.0 \times 1015$ | $1.0 \times 1019$ |
|  | Surface Resistivity*** ( $\Omega$-口) | $4.4 \times 10^{12}$ | $1.0 \times 1015$ | $8.6 \times 1014$ |
|  | Charging Voltage*** kV | 0.05 | 2.6 | 3.1 |
|  | Half Decay Period*** (s) | 8.9 | >30min | >30min |
| Mechanical Properties | Knoop Hardness** Hk | 590 (6) | 570 (6) | 640 (6) |
|  | Abrasion** | 53 | 94 | 59 |
|  | Young's Modulus (GPa) | 82 | 80 | 71 |
|  | Rigidity Modulus (GPa) | 33 | 33 | 31 |
|  | Bending Strength (MPa) | 107 | 64 | 69 |
|  | Poisson's Ratio | 0.22 | 0.21 | 0.17 |
| Thermal Properties | CTE 10-7/K | 33 | 72 | 5.5 |

*Measured at $20^{\circ} \mathrm{C}$ and Humidity of $60 \%$ according to JIS K 6911.
**Measured according to JOGIS (Japan Optical Glass Industry Association standard)
${ }^{* * *}$ Measured referring to JIS L 1094 (OHARA's original method). Half decay period is
the time required for the charging voltage of the surface to half of its initial value.


Please contact us to discuss your specific requirements.

